

antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic, antirheumatic, antiarthritic, osteopathic, antibacterial, immunosuppressive, dermatological, neuroprotective, nootropic, antiatherosclerotic, virucide and antiallergic activity. The compounds act as selective inhibitors of cytokine-mediated NFKappaB activation by blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding domain that results in inhibition of IKKbeta kinase activation and subsequent decreased phosphorylation of IkappaB. The compounds are useful for treating inflammatory disorders, e.g. asthma, lung inflammation or cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; viral infections; and ataxia telangiectasia. The compounds are also useful for treating pro-inflammatory responses such as allergies, urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, sunburn, aging and arthritis.

```

Query Match 100.0%; Score 40; DB 5; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0;
Gaps 0

```

RESULT 2
PAM48570 standard; peptide; 6 AA.
1 ADWSWA 6 .
1 ADWSWA 6 .
1 ADWSWA 6 .
1 ADWSWA 6 .

AAC XXX
XXX DDT XXX
XXX DEE XXX
AAM48570;
20-MAR-2002 (first entry)
Anti-inflammatory peptide SEQ ID NO 73.
Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic; antirheumatic; antiarthritic; osteopathic; antibacterial; virucide; immunosuppressive; dermatological; neuroprotective; antiatherosclerotic; antiallergic; membrane translocation domain; NEMO binding domain; eczema; cytokine; NFKappaB; IKappaB kinase beta; IKKbeta; cancer; psoriasis; rheumatoid arthritis; osteoarthritis; inflammatory bowel disease; autoimmune disorder; multiple sclerosis; transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; viral infection; ataxia telangiectasia; allergy; anaphylaxis; arthritis.

— — —
COS
XXX
PN
Synthetic.
WO200183554-A2.

PPD 08-NOV-2001.
XXX
PPF 02-MAY-2001; 2001WO-US014346.
XXX

PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XXX
PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA) UNIV YALE.
PA XXX

XXX DR
XXX PPT
XXX PPT
XXX
WPI; 2002-121889/16.
Novel antiinflammatory compound comprising membrane translocation domain fused to NEMO binding sequence, useful for blocking nuclear factor kappa B activation, and for treating asthma, lung inflammation, psoriasis.

Claim 6; Page 62; 88pp; English.

The invention relates to an antiinflammatory compound (especially AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic, antirheumatic, antiarthritic, osteopathic, antibacterial, immunosuppressive, dermatological, neuroprotective, nootropic, antiatherosclerotic, virucide and antiallergic activity. The compounds act as selective inhibitors of cytokine-mediated NFkappaB activation by blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding domain that results in inhibition of IKKbeta kinase activation and subsequent decreased phosphorylation of IkappaB. The compounds are useful for treating inflammatory disorders, e.g. asthma, lung inflammation or cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; viral infections; and ataxia telangiectasia. The compounds are also useful for treating pro-inflammatory responses such as allergies, urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, sunburn, aging and arthritis.

```

Query Match 100.0%; Score 40; DB 5; Length 6;
Best Local Similarity 100.0%; Pred. NO. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0;
Gaps 0
Qy 1 ADWSWA 6
Db 1 ADWSWA 6

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RESULT 3
ADA61814
ID ADA61814 standard; peptide; 6 AA.
XX
AC ADA61814;
XX
DT 20-NOV-2003 (first entry)
XX
DE NFKB essential modulator (NEMO) binding peptide #14.
XX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytoprotective; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW NFKB essential modulator

XX	OS	Unidentified.
XX	PN	US2003054999-A1.
XX	PD	20-MAR-2003.
XX	PF	02-MAY-2001; 2001US-00847946.
XX	PR	02-MAY-2000; 2000US-0201261P.
XX	PA	(MAYM/) MAY M J.
PA		(GHOSH/) GHOSH S.
PA		(FIND/) FINDEIS M A.
PA		(PHIL/) PHILLIPS K.
PA		(HANN/) HANNIG G.
XX	PI	May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX		

PT New compound for diagnosing or treating inflammatory disorders, e.g. PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or PT cancer, comprises a membrane translocation domain and a NEMO binding PT sequence.

XX PS Claim 6; Page 23; 37pp; English.

XX The invention describes an anti-inflammatory compound comprising (I). The CC compound is useful for diagnosing or treating inflammatory disorders, CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis, CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g. CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis, CC Alzheimer's disease or viral infection. This is the amino acid sequence CC of an anti-inflammatory peptide that binds to, and down-regulates, CC necrosis factor kappa B (NFkB) essential modulator (NEMO).

XX SQ Sequence 6 AA;

Query Match 100.0%; Score 40; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 4
ADA61846
ID ADA61846 standard; peptide; 6 AA.
AC ADA61846;
XX DT 20-NOV-2003 (first entry)

DE NFkB essential modulator (NEMO) binding peptide #46.
XX NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiarthritic; osteoarthritis; IKKbeta;
KW antiarthritic; antipsoriatic; antirheumatic;
KW dermatological; neuroprotective; immunosuppressive;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis; osteoporosis;
KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.

XX Unidentified.

XX PN US2003054999-A1.
XX PD 20-MAR-2003.
XX PP 02-MAY-2001; 2001US-00847946.
XX PR 02-MAY-2000; 2000US-0201261P.

XX PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX PI May MJ, Ghosh S, Findeis MA, Phillips K;

XX DR WPI; 2002-121889/16.

XX The invention relates to an antiinflammatory compound comprising membrane translocation domain (AAM48620-CC AAM48628-AM48645), comprising a membrane translocation domain (AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The CC antiinflammatory Compounds have antiasthmatic, cytostatic, CC antirheumatic, antiarthritic, osteopathic, antibacterial, sequence.

XX PS Claim 6; Page 23; 37pp; English.

XX The invention describes an anti-inflammatory compound comprising (I). The CC compound is useful for diagnosing or treating inflammatory disorders, CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis, CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g. CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis, CC Alzheimer's disease or viral infection. This is the amino acid sequence CC of an anti-inflammatory peptide that binds to, and down-regulates, CC necrosis factor kappa B (NFkB) essential modulator (NEMO).

XX SQ Sequence 6 AA;

Query Match 100.0%; Score 40; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 5
AAM48574
ID AAM48574 standard; peptide; 7 AA.
AC AAM48574;
XX DT 20-MAR-2002 (first entry)
XX Anti-inflammatory peptide SEQ ID NO 77.
DB XX
XX Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic; KW antirheumatic; antiarthritic; osteoprotective; antibacterial; virucide; KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic; KW antiallergic; membrane translocation domain; NEMO binding domain; eczema; KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis; KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease; KW autoimmune disorder; multiple sclerosis; transplant rejection; KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection; KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX Synthetic.
OS XX
PN WO200183554-A2.
XX PD 08-NOV-2001.
XX PF 02-MAY-2001; 2001WO-US014346.
XX PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA) UNIV YALE.
XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX DR WPI; 2002-121889/16.

XX The invention relates to an antiinflammatory compound comprising membrane translocation domain (AAM48620-CC AAM48628-AM48645), comprising a membrane translocation domain (AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The CC antiinflammatory Compounds have antiasthmatic, cytostatic, CC antirheumatic, antiarthritic, osteopathic, antibacterial, sequence.

CC immunosuppressive, dermatological, neuroprotective, nootropic,
 CC antiatherosclerotic, virucide and antiallergic activity. The compounds
 CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
 CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
 CC domain that results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
 CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
 CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
 CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
 CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
 CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
 CC viral infections; and ataxia telangiectasia. The compounds are also
 CC useful for treating pro-inflammatory responses such as allergies,
 CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
 CC sunburn, aging and arthritis
 XX SQ Sequence 7 AA;

Query Match 100.0%; Score 40; DB 5; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 6
 ADA61850
 ID ADA61850 standard; peptide; 7 AA.
 XX ADA61850;
 AC
 XX 20-NOV-2003 (first entry)

DE NFkB essential modulator (NEMO) binding peptide #50.
 XX NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
 KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
 KW antiarthritic; osteoprotective; antibacterial; immunosuppressive;
 KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
 KW gene therapy; anti-inflammatory; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis;
 KW OS Synthetic.
 XX WO200183554-A2.
 XX 08-NOV-2001.
 XX PF 02-MAY-2001; 2001WO-US014346.
 XX PR 02-MAY-2000; 2000US-0201261P.
 XX PR 22-AUG-2000; 2000US-00643260.
 XX PA (PRAE-) PRAECLIS PHARM INC.
 XX PA (UYYA) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR 2002-121889/16.

XX US2003054999-A1.

XX 20-MAR-2003.
 PD 02-MAY-2001; 2001US-00847946.

XX PF 02-MAY-2000; 2000US-0201261P.
 XX PR 02-MAY-2000; 2000US-00847946.

XX PA (MAYM/) MAY M J.
 PA (GHOS/) GHOSH S.
 PA (FIND/) FINDEIS M A.
 PA (PHIL/) PHILLIPS K.
 PA (HANN/) HANNIG G.
 PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
 XX DR 2003-596541/56.

XX New compound for diagnosing or treating inflammatory disorders, e.g.
 PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
 PT cancer, comprises a membrane translocation domain and a NEMO binding
 PT sequence.

PS Claim 6; Page 23; 37pp; English.

XX The invention describes an anti-inflammatory compound comprising (I). The
 CC compound is useful for diagnosing or treating inflammatory disorders,
 CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
 CC inflammatory bowel disease, sepsis, vasculitis, autoimmunne diseases (e.g.
 CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
 CC Alzheimer's disease or viral infection. This is the amino acid sequence
 CC of an anti-inflammatory peptide that binds to, and down-regulates,
 CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
 XX SQ Sequence 7 AA;

Query Match 100.0%; Score 40; DB 6; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 7
 AAM48575
 ID AAM48575 standard; peptide; 8 AA.
 XX AAM48575;
 AC
 XX 20-MAR-2002 (first entry)

DE Anti-inflammatory peptide SEQ ID NO 78.
 XX AAM48575
 KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteoprotective; antibacterial; virucide;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW antiallergic; membrane translocation domain; NEMO binding NFkB;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis;
 KW OS Synthetic.
 XX WO200183554-A2.
 XX 08-NOV-2001.
 XX PF 02-MAY-2001; 2001WO-US014346.
 XX PR 02-MAY-2000; 2000US-0201261P.
 XX PR 22-AUG-2000; 2000US-00643260.
 XX PA (PRAE-) PRAECLIS PHARM INC.
 XX PA (UYYA) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR 2002-121889/16.

XX The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 PT residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
 PT activation, and for treating asthma, lung inflammation, psoriasis.

XX PS Claim 6; Page 62; 88pp; English.
 XX The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 PT residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 CC immunosuppressive, antiarthritic, osteoprotic, antibacterial, neuroprotective,
 CC nootropic,

CC antiatherosclerotic, virucide and antiallergic activity. The compounds
 CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
 CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
 CC domain that results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
 CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
 CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
 CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
 CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
 CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
 CC viral infections; and ataxia telangiectasia. The compounds are also
 CC useful for treating pro-inflammatory responses such as allergies,
 CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
 CC sunburn, aging and arthritis

XX SQ Sequence 8 AA;
 Query Match 100.0%; Score 40; DB 5; Length 8;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

XX RESULT 8
 ID AAM48567 standard; peptide; 8 AA.

XX AC AAM48567;
 XX DT 20-MAR-2002 (first entry)
 XX DE Anti-inflammatory peptide SEQ ID NO 70.

XX KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis;
 XX OS Synthetic.
 XX PN WO200183554-A2.
 XX PD 08-NOV-2001.
 XX PF 02-MAY-2001; 2001WO-US014346.
 XX PR 02-MAY-2000; 2000US-0201261P.
 XX PR 22-AUG-2000; 2000US-00643260.
 XX PA (PRAE-) PRAEIS PHARM INC.
 PA (UYYA) UNIV YALE.

XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR WPI; 2002-121889/16.
 XX PT Novel antiinflammatory compound comprising membrane translocation domain
 PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
 PT activation, and for treating asthma, lung inflammation, psoriasis.
 XX PS Claim 6; Page 62; 88pp; English.

XX The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 PT PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
 XX DR WPI; 2003-596541/56.
 XX PT New compound for diagnosing or treating inflammatory disorders, e.g.
 PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or

CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 CC antirheumatic, antiarthritic, osteopathic, antibacterial,
 CC immunosuppressive, dermatological, neuroprotective, nootropic,
 CC antiatherosclerotic, virucide and antiallergic activity. The compounds are useful
 CC as selective inhibitors of cytokine-mediated NFkappaB activation by
 CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
 CC domain that results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
 CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
 CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
 CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
 CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
 CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
 CC viral infections; and ataxia telangiectasia. The compounds are also
 CC useful for treating pro-inflammatory responses such as allergies,
 CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
 CC sunburn, aging and arthritis

XX SQ Sequence 8 AA;
 Query Match 100.0%; Score 40; DB 5; Length 8;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 3 ADWSWA 8

XX RESULT 9
 ID ADA61851 standard; peptide; 8 AA.

XX AC ADA61851;
 XX DT 20-NOV-2003 (first entry)

XX DE NFkB essential modulator (NEMO) binding peptide #51.

XX KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
 KW antiinflammatory; antipsoriatic; antirheumatic;
 KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
 KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
 KW gene therapy; anti-inflammatory disorder; asthma;
 KW psoriasis; rheumatoid arthritis; osteoarthritis;
 KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
 KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
 KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
 KW necrosis factor kappa B essential modulator.

XX OS Unidentified.

XX PN US2003054999-A1.

XX PD 20-MAR-2003.

XX PF 02-MAY-2001; 2001US-00847946.

XX PR 02-MAY-2000; 2000US-0201261P.

XX PR 20-MAR-2003.

XX PF 02-MAY-2000; 2000US-0201261P.

XX PR 02-MAY-2000; 2000US-0201261P.

XX PA (MAYM/) MAY M. J.
 PA (GHOS/) GHOSH S.
 PA (FIND/) FINDEIS M. A.
 PA (PHIL/) PHILLIPS K.
 PA (HANN/) HANNIG G.

XX PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;

XX DR WPI; 2003-596541/56.

PT cancer, comprises a membrane translocation domain and a NEMO binding
 PT sequence.
 XX Claim 6; Page 23; 37pp; English.

CC The invention describes an anti-inflammatory compound comprising (I). The
 CC compound is useful for diagnosing or treating inflammatory disorders,
 CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis, osteoporosis,
 CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
 CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
 CC Alzheimer's disease or viral infection. This is the amino acid sequence
 CC of an anti-inflammatory peptide that binds to, and down-regulates,
 CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
 XX Sequence 8 AA;

Query Match 100.0%; Score 40; DB 6; Length 8;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 10
 ADA61843 standard; peptide; 8 AA.
 XX DT 20-NOV-2003 (first entry)
 XX ADA61843;
 DE DT 20-NOV-2003 (first entry)
 DE NFkB essential modulator (NEMO) binding peptide #43.
 DE XX NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
 DE XX antiinflammatory; antiasthmatic; antiparasitic; antirheumatic;
 DE XX antiarthritic; osteoprotective; immunosuppressive;
 DE XX gene therapy; anti-inflammatory; inflammatory disorder; asthma;
 DE XX psoriasis; rheumatoid arthritis; sepsis; vasculitis; autoimmune disease;
 DE XX inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
 DE XX Systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
 DE XX Alzheimer's disease; viral infection; NF-kappa B essential modulator;
 DE XX necrosis factor kappa B essential modulator.
 OS Unidentified.
 XX PN US2003054999-A1.
 XX PD 20-MAR-2003.
 XX PF 02-MAY-2001; 2001US-00847946.
 XX PR 02-MAY-2000; 2000US-0201261P.
 XX PR (MAYM/) MAY M J.
 PA (GHOS/) GHOSH S.
 PA (FIND/) FINDEIS M A.
 PA (PHIL/) PHILLIPS K.
 PA (HANN/) HANNIG G.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
 XX DR 2003-596541/56.

XX New compound for diagnosing or treating inflammatory disorders, e.g.
 PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
 PT cancer, comprises a membrane translocation domain and a NEMO binding
 PT sequence.
 XX Claim 6; Page 23; 37pp; English.
 XX

CC The invention describes an anti-inflammatory compound comprising (I). The
 CC compound is useful for diagnosing or treating inflammatory disorders,
 CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis, osteoporosis,
 CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
 CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
 CC Alzheimer's disease or viral infection. This is the amino acid sequence
 CC of an anti-inflammatory peptide that binds to, and down-regulates,
 CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
 XX Sequence 8 AA;

Query Match 100.0%; Score 40; DB 6; Length 8;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 3 ADWSWA 8

RESULT 11
 AAM48573
 ID AAM48573 standard; peptide; 9 AA.
 XX AAM48573;
 AC XX 20-MAR-2002 (first entry)
 AC XX Anti-inflammatory peptide SEQ ID NO 76.
 DE XX Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 DE XX antirheumatic; antiarthritic; cytostatic; antipsoriatic; nootropic;
 DE XX antirheumatic; antibacterial; virucide; immunosuppressive; dermato logical; neuroprotective; antiatherosclerotic;
 DE XX anti allergic; membrane translocation domain; NEMO binding domain; eczema;
 DE XX cytokine; NFkB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 DE XX rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 DE XX autoimmune disorder; multiple sclerosis; transplant rejection;
 DE XX osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 DE XX ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 OS Synthetic.
 XX PN WO200183554-A2.
 XX PD 08-NOV-2001.
 PF XX 02-MAY-2001; 2001WO-US014346.
 PF XX 02-MAY-2000; 2000US-0201261P.
 PR XX 22-AUG-2000; 2000US-00643260.
 PR XX (PRAE-) PRAECIS PHARM INC.
 PA PA (UYYA) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR 2002-121889/16.

XX The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 PT residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 CC anti rheumatic, antiarthritic, osteoprotective, dermatological, neuroprotective,
 CC atherosclerotic, virucide and antiallergic activity. The compounds
 CC act as selective inhibitors of cytokine-mediated NFkB activation by

blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding domain that results in inhibition of IKKbeta kinase activation and subsequent decreased phosphorylation of IkappaB. The compounds are useful for treating inflammatory disorders, e.g. asthma, lung inflammation or cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; viral infections; and ataxia telangiectasia. The compounds are also useful for treating pro-inflammatory responses such as allergies, urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, sunburn, aging and arthritis.

```

Query Match      100.0%;  Score 40;  DB 5;  Length 9;
Best Local Similarity 100.0%;  Pred. NO. 1.4e+06;
Matches 6;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;
Y      1 ADWSWA 6
      |||||
```

RESULT 12
AM48566
D AM48566 standard: nentide: 9 AA

AAM48566; 20-MAR-2002 (first entry)

Anti-inflammatory peptide SEQ ID NO 69.

Synthetic.

WO200183554-A2.

08-NOV-2001.

002-MAY-2001; 2001WO-US014346.

22-AUG-2000; 2000US-00643260.
(PRAE-) PRAECIS PHARM INC.
(UYA) UNIV YALE.

WPI; 2002-121889/16.

Novel antiinflammatory compound comprising membrane translocation domain fused to NEMO binding sequence, useful for blocking nuclear factor kappaB activation; and for treating asthma, lung inflammation, psoriasis.

Claim 6; Page 62; 88pp; English.

The invention relates to an antiinflammatory compound (especially AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The antiinflammatory compounds have antiasthmatic, cytoprotective, and inscorpiric

antirheumatic, antiarthritic, osteopathic, antibacterial, immunosuppressive, dermatological, neuroprotective, nootropic, antiatherosclerotic, virucide and antiallergic activity. The compounds act as selective inhibitors of cytokine-mediated NFkappaB activation by blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding domain that results in inhibition of IKKbeta kinase activation and subsequent decreased phosphorylation of IKappaB. The compounds are useful for treating inflammatory disorders, e.g. asthma, lung inflammation or cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; viral infections; and ataxia telangiectasia. The compounds are also useful for treating pro-inflammatory responses such as allergies, urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, sunburn, aging and arthritis.

```

Query Match      100.0%;  Score 40;  DB 5;  Length 9;
Best Local Similarity 100.0%;  Pred. No. 1.4e+06;
Matches 6;  Conservative 0;  Mismatches 0;  Indels 0;
Gaps 0;
Qy      1 ADWSWA 6

```

RESULT 1.3
AAM48569
ID AAM48569 standard; peptide; 9 AA.
XX
AC AAM48569;
XX
DT 20-MAR-2002 (first entry)
XX
DE Anti-inflammatory peptide SEQ ID NO 72.
XX
KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX

XX WO200183554-A2.
XX PN 08-NOV-2001.
XX PD 02-MAY-2001; 2001WO-US014346.
XX PF 02-MAY-2000; 2000US-0201261P.
XX PR 22-AUG-2000; 2000US-00643260.
XX PA (PRAE-) PRAECIS PHARM INC.
XX PA (UYYA) UNIV YALE.
XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX DR 2002-121889/16.
XX PT Novel antiinflammatory compound comprising membrane translocation domain
XX PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
XX PT activation, and for treating asthma, lung inflammation, psoriasis.
XX Claim 6; Page 62; 88pp; English.
XX PS The invention relates to an antiinflammatory compound [especially
XX CC

CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 CC residues, fused to a NEMO binding sequence (AAM48525 AAM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 CC antirheumatic, antiarthritic, osteopathic, antibacterial, nootropic,
 CC immunosuppressive, dermatological, neuroprotective, antiallergic activity.
 CC The compounds act as selective inhibitors of cytokine-mediated NFkappaB activation by
 CC blocking interaction of IkappaB kinase (IKKbeta) at the NEMO binding
 CC domain that results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
 CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
 CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
 CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
 CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
 CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
 CC viral infections; and ataxia telangiectasia. The compounds are also
 CC useful for treating pro-inflammatory responses such as allergies,
 CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
 CC sunburn, aging and arthritis
 XX SQ Sequence 9 AA;

Query Match 100.0%; Score 40; DB 5; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 14
 AAM48572
 ID AAM48572 standard; peptide; 9 AA.
 XX DE Anti-inflammatory peptide SEQ ID NO 75.

XX DT 20-MAR-2002 (first entry)
 XX DE Anti-inflammatory peptide SEQ ID NO 75.
 XX KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
 KW immunosuppressive; dermatological; neuroprotective; antiallergic;
 KW membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 KW Synthetic.
 XX OS WO200183554-A2.
 XX PD 08-NOV-2001.
 XX PF 02-MAY-2001; 2001WO-US014346.

XX PR 02-MAY-2000; 2000US-0201261P.
 PR 22-AUG-2000; 2000US-00643260.
 XX PA (PRAE-) PRAEIS PHARM INC.
 PA (UYA) UNIV YALE.

XX PI May MJ, Ghosh S, Findeis MA, Phillips K;

XX DR 2002-121889/16..

XX PT Novel antiinflammatory compound comprising membrane translocation domain
 PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
 PT activation, and for treating asthma, lung inflammation, psoriasis.

XX PS Claim 6; Page 62; 88pp; English.
 XX CC The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 CC residues, fused to a NEMO binding sequence (AAM48525 AAM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 CC antirheumatic, antiarthritic, osteopathic, antibacterial, nootropic,
 CC immunosuppressive, dermatological, neuroprotective, antiallergic activity. The compounds
 CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
 CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
 CC domain that results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
 CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
 CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
 CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
 CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
 CC transplant rejection; osteoporosis; Alzheimer's disease;
 CC viral infections; and ataxia telangiectasia. The compounds are also
 CC useful for treating pro-inflammatory responses such as allergies,
 CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
 CC sunburn, aging and arthritis
 XX SQ Sequence 9 AA;

Query Match 100.0%; Score 40; DB 5; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 3 ADWSWA 8

RESULT 15
 ADA61848
 ID ADA61848 standard; peptide; 9 AA.
 XX AC ADA61848;
 XX DT 20-NOV-2003 (first entry)
 DE NFkB essential modulator (NEMO) binding peptide #48.
 XX AC ADA61848;
 XX DT 20-NOV-2003 (first entry)
 DE NFkB essential modulator (NEMO) binding peptide #48.
 KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
 KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
 KW antibacterial; virucide;
 KW antiarthritic; osteopathic; immunosuppressive;
 KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
 KW gene therapy; anti-inflammatory disorder; asthma;
 KW psoriasis; rheumatoid arthritis; osteoarthritis;
 KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
 KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
 KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
 KW necrosis factor kappa B essential modulator.
 XX OS Unidentified.

XX PN US2003054999-A1.

XX PD 20-MAR-2003.

XX PF 02-MAY-2001; 2001US-00847946.

XX PR 02-MAY-2000; 2000US-0201261P.

XX PA (MAYM/) MAY M J.
 PA (GHOS/) GHOSH S.
 PA (FINDEIS M A. FINDEIS M A.
 PA (PHIL/) PHILLIPS K.
 PA (HANN/) HANNIG G.
 XX

XX The invention describes an anti-inflammatory compound comprising (I). The
 CC compound is useful for diagnosing or treating inflammatory disorders,
 CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
 CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
 CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
 CC Alzheimer's disease or viral infection. This is the amino acid sequence
 CC of an anti-inflammatory peptide that binds to, and down-regulates,
 CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
 XX Sequence 9 AA;

Query Match 100.0%; Score 40; DB 6; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
 Db 2 ADWSWA 7

RESULT 18
 ADA61845

ID ADA61845 standard; peptide; 9 AA.
 XX AC ADA61845;

XX DT 20-NOV-2003 (first entry)
 DE NFkB essential modulator (NEMO) binding peptide #45.

XX NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
 KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
 KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
 KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
 KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
 KW psoriasis; rheumatoid arthritis; osteoarthritis;
 KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
 KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
 KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
 KW necrosis factor kappa B essential modulator.
 XX Unidentified.
 OS US2003054999-A1.

XX PD 20-MAR-2003.
 PN US2003054999-A1.
 XX PR 02-MAY-2000; 2000US-0201261P.

XX PA 02-MAY-2001; 2001US-00847946.
 XX PR 02-MAY-2000; 2000US-0201261P.

XX PA (MAYM/) MAY M J.
 PA (GHOS/) GHOSH S.
 PA (FIND/) FINDEIS M A.
 PA (PHIL/) PHILLIPS K.
 PA (HANN/) HANNIG G.
 PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
 XX DR WPI; 2003-596541/56.

XX PT New compound for diagnosing or treating inflammatory disorders, e.g.
 PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
 PT cancer, comprises a membrane translocation domain and a NEMO binding
 PT sequence.
 XX PS Claim 6; Page 23; 37pp; English.

XX The invention describes an anti-inflammatory compound comprising (I). The
 CC compound is useful for diagnosing or treating inflammatory disorders,
 CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
 CC inflammatory bowel disease, sepsis, vasculitis, autoimmune disease (e.g.
 CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
 CC Alzheimer's disease or viral infection. This is the amino acid sequence
 CC of an anti-inflammatory peptide that binds to, and down-regulates,
 CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
 XX

XX The invention describes an anti-inflammatory compound comprising (I). The
 CC compound is useful for diagnosing or treating inflammatory disorders,
 CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
 CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
 CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
 CC Alzheimer's disease or viral infection. This is the amino acid sequence
 CC of an anti-inflammatory peptide that binds to, and down-regulates,
 CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
 XX Sequence 9 AA;

Query Match 100.0%; Score 40; DB 6; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 19
 ADA61842

ID ADA61842 standard; peptide; 9 AA.
 XX AC ADA61842;
 XX DT 20-NOV-2003 (first entry)

XX DE NFkB essential modulator (NEMO) binding peptide #42.
 XX KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
 KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
 KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
 KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
 KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
 KW psoriasis; rheumatoid arthritis; osteoarthritis;
 KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
 KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
 KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
 KW necrosis factor kappa B essential modulator.
 XX Unidentified.
 OS US2003054999-A1.

XX PD 20-MAR-2003.
 PN US2003054999-A1.
 XX PR 02-MAY-2001; 2001US-00847946.
 XX PR 02-MAY-2000; 2000US-0201261P.

XX PA (MAYM/) MAY M J.
 PA (GHOS/) GHOSH S.
 PA (FIND/) FINDEIS M A.
 PA (PHIL/) PHILLIPS K.
 PA (HANN/) HANNIG G.

PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
 XX DR WPI; 2003-596541/56.

XX PT New compound for diagnosing or treating inflammatory disorders, e.g.
 PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
 PT cancer, comprises a membrane translocation domain and a NEMO binding
 PT sequence.
 XX PS Claim 6; Page 23; 37pp; English.

XX The invention describes an anti-inflammatory compound comprising (I). The
 CC compound is useful for diagnosing or treating inflammatory disorders,
 CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
 CC inflammatory bowel disease, sepsis, vasculitis, autoimmune disease (e.g.
 CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
 CC Alzheimer's disease or viral infection. This is the amino acid sequence
 CC of an anti-inflammatory peptide that binds to, and down-regulates,
 CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
 XX

SQ Sequence 9 AA;
 Query Match 100.0%; Score 40; DB 6; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 SQ Sequence 10 AA;

QY 1 ADWSWA 6
 1 ADWSWA 6
 1 ADWSWA 6
 DB ADWSWA 7

RESULT 20
 AAM48568 standard; peptide; 10 AA.
 XX
 AC AAM48568;
 XX DT 20-MAR-2002 (first entry)
 DE Anti-inflammatory peptide SEQ ID NO 71.
 XX
 KW Antinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteopathic; osteoarthritis; virucide;
 KW immunosuppressive; dermatological; neuroprotective; antibacterial; antiatherosclerotic;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 XX
 OS Synthetic.
 XX PN WO200183554-A2.
 XX PD 08-NOV-2001.
 XX PF 02-MAY-2001; 2001WO-US014346.
 XX PR 02-MAY-2000; 2000US-0201261P.
 XX PR 22-AUG-2000; 2000US-00643260.
 XX PA (PRAE-) PRAECIS PHARM INC.
 PA (UYYA) UNIV YALE.
 PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX WPI; 2002-121889/16.
 DR
 XX PT Novel antiinflammatory compound comprising membrane translocation domain fused to NEMO binding sequence, useful for blocking nuclear factor kappaB activation, and for treating asthma, lung inflammation, psoriasis.
 XX PS Claim 6; Page 62; 88pp; English.
 XX PT The invention relates to an antiinflammatory compound (especially AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic, CC immunosuppressive, dermatological, neuroprotective, nootropic, CC antiatherosclerotic, virucide and antiallergic activity. The compounds act as selective inhibitors of cytokine mediated NFkappaB activation by CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding CC domain that results in inhibition of IKKbeta kinase activation and CC subsequent decreased phosphorylation of IkappaB. The compounds are useful CC for treating inflammatory disorders, e.g. asthma, lung inflammation or CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; CC viral infections; and ataxia telangiectasia. The compounds are also CC

CC useful for treating pro-inflammatory responses such as allergies, CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, CC sunburn, aging and arthritis
 XX

Query Match 100.0%; Score 40; DB 5; Length 10;
 Best Local Similarity 100.0%; Pred. No. 2.6;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 SQ Sequence 10 AA;

QY 1 ADWSWA 6
 1 ADWSWA 6
 2 ADWSWA 7

RESULT 21
 AAM48571
 ID AAM48571 standard; peptide; 10 AA.
 XX
 AC AAM48571;
 XX DT 20-MAR-2002 (first entry)
 DE Anti-inflammatory peptide SEQ ID NO 74.
 XX
 KW Antinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteopathic; osteoarthritis; virucide;
 KW immunosuppressive; dermatological; neuroprotective; antibacterial; antiatherosclerotic;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 XX
 OS Synthetic.
 XX PN WO200183554-A2.
 XX PD 08-NOV-2001.
 XX PF 02-MAY-2001; 2001WO-US014346.
 XX PR 02-MAY-2000; 2000US-0201261P.
 XX PR 22-AUG-2000; 2000US-00643260.
 XX PA (PRAE-) PRAECIS PHARM INC.
 PA (UYYA) UNIV YALE.
 PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX WPI; 2002-121889/16.
 DR
 XX PT Novel antiinflammatory compound comprising membrane translocation domain fused to NEMO binding sequence, useful for blocking nuclear factor kappaB activation, and for treating asthma, lung inflammation, psoriasis.
 XX PS Claim 6; Page 62; 88pp; English.
 XX PT The invention relates to an antiinflammatory compound (especially AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic, CC immunosuppressive, dermatological, neuroprotective, nootropic, CC antiatherosclerotic, virucide and antiallergic activity. The compounds act as selective inhibitors of cytokine mediated NFkappaB activation by CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding CC domain that results in inhibition of IKKbeta kinase activation and CC subsequent decreased phosphorylation of IkappaB. The compounds are useful CC for treating inflammatory disorders, e.g. asthma, lung inflammation or CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; CC viral infections; and ataxia telangiectasia. The compounds are also CC

bowel disease; sepsis; vasculitis; bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; viral infections; and ataxia telangiectasia. The compounds are also useful for treating pro-inflammatory responses such as allergies, urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, sunburn, aging and arthritis

Sequence 10 AA;

Query Match 100.0%; Score 40; DB 5; Length 10;
Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 3 ADWSWA 8

RESULT 22
ADA61844
ID ADA61844 standard; peptide; 10 AA.
XX ADA61844;
AC;

XX 20-NOV-2003 (first entry)
DE NFKB essential modulator (NEMO) binding peptide #44.
XX NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta; antiinflammatory; antiasthmatic; antibacterial; antirheumatic;
KW antiarthritic; osteoprotective; cytostatic; immunosuppressive;
KW dermatological; neuroprotective; nootropics; virucide; gene therapy; anti-inflammatory disorder; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis; inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis; Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.

XX Unidentified.
OS XX US2003054999-A1.
PN XX PR 02-MAY-2000; 2000US-0201261P.
XX PD 20-MAR-2003.
XX PA (MAYM/) MAY M J.
PF 02-MAY-2001; 2001US-00847946.
XX PR 02-MAY-2000; 2000US-0201261P.
XX PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.

PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX DR 2003-596541/56.
XX PT New compound for diagnosing or treating inflammatory disorders, e.g., asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or cancer, comprises a membrane translocation domain and a NEMO binding sequence.

XX PS Claim 6; Page 23; 37pp; English.

XX PT New compound for diagnosing or treating inflammatory disorders, e.g., asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or cancer, comprises a membrane translocation domain and a NEMO binding sequence.

XX PS Claim 6; Page 23; 37pp; English.

XX The invention describes an anti-inflammatory compound comprising (I). The compound is useful for diagnosing or treating inflammatory disorders, such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g., systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis, Alzheimer's disease or viral infection. This is the amino acid sequence of an anti-inflammatory peptide that binds to, and down-regulates, necrosis factor kappa B (NFKB) essential modulator (NEMO).

CC Sequence 10 AA;

CC of an anti-inflammatory peptide that binds to, and down-regulates, necrosis factor kappa B (NFKB) essential modulator (NEMO).

CC XX SQ Sequence 10 AA;

Query Match 100.0%; Score 40; DB 6; Length 10;

Best Local Similarity 100.0%; Pred. No. 2.6;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ADWSWA 6
Db 2 ADWSWA 7

RESULT 23
ADA61847
ID ADA61847 standard; peptide; 10 AA.

XX AC ADA61847;
XX DT 20-NOV-2003 (first entry)
XX DE NFKB essential modulator (NEMO) binding peptide #47.

XX NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta; antiinflammatory; antiasthmatic; antibacterial; antirheumatic; antiarthritic; osteoprotective; cytostatic; immunosuppressive; dermatological; neuroprotective; nootropics; virucide; gene therapy; anti-inflammatory disorder; inflammatory disorder; asthma; psoriasis; rheumatoid arthritis; osteoarthritis; inflammatory bowel disease; sepsis; vasculitis; autoimmune disease; systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis; Alzheimer's disease; viral infection; NF-kappa B essential modulator; necrosis factor kappa B essential modulator.

XX Unidentified.
OS XX US2003054999-A1.
PN XX PR 02-MAY-2003.

XX PD 20-MAR-2003.
XX PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.

PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX DR 2003-596541/56.

XX PT New compound for diagnosing or treating inflammatory disorders, e.g., asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or cancer, comprises a membrane translocation domain and a NEMO binding sequence.

XX PS Claim 6; Page 23; 37pp; English.

XX The invention describes an anti-inflammatory compound comprising (I). The compound is useful for diagnosing or treating inflammatory disorders, such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g., systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis, Alzheimer's disease or viral infection. This is the amino acid sequence of an anti-inflammatory peptide that binds to, and down-regulates, necrosis factor kappa B (NFKB) essential modulator (NEMO).

CC Sequence 10 AA;

Query Match 100.0%; Score 40; DB 6; Length 10;
 Best Local Similarity 100.0%; Pred. No. 2.6;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC sunburn, aging and arthritis
 XX SQ Sequence 11 AA;

Query Match 100.0%; Score 40; DB 5; Length 11;
 Best Local Similarity 100.0%; Pred. No. 2.9;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC Query 1 ADWSWA 6
 XX SQ Sequence 11 AA;

Query Match 100.0%; Score 40; DB 5; Length 11;
 Best Local Similarity 100.0%; Pred. No. 2.9;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CC Db 3 ADWSWA 8
 XX SQ Sequence 11 AA;

RESULT 24
 ID AAM48565 standard; peptide; 11 AA.

AC AAM48565;
 XX DT 20-MAR-2002 (first entry)

DE Anti-inflammatory peptide SEQ ID NO 68.

XX KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.

XX OS Synthetic.

XX PN WO200183554-A2.

XX PD 08-NOV-2001.

XX PF 02-MAY-2001; 2001WO-US014346.

XX PR 02-MAY-2000; 2000US-0201261P.

XX PR 22-AUG-2000; 2000US-00643260.

XX PA (PRAE-) PRAECIS PHARM INC.
 PA (UYYA) UNIV YALE.

XX PI May MJ, Ghosh S, Findeis MA, Phillips K;

XX DR 2002-121889/16.

XX PT Novel antiinflammatory compound comprising membrane translocation domain
 PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
 PT activation, and for treating asthma, lung inflammation, psoriasis.

XX PS Claim 6; Page 62; 88pp; English.

XX CC The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 CC antirheumatic, antiarthritic, osteopathic, antibacterial, nootropic,
 CC immunosuppressive, dermatological, neuroprotective, antiallergic activity. The compounds
 CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
 CC blocking interaction of IkappaB kinase-beta (IKKbeta) at the NEMO binding
 CC domain that results in inhibition of IkappaB kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
 CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
 CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
 CC bowel disease, sepsis, vasculitis, bursitis, autoimmune diseases such as
 CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
 CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
 CC viral infections; and ataxia telangiectasia. The compounds are also
 CC useful for treating pro-inflammatory responses such as allergies,
 CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,

XX CC The invention describes an anti-inflammatory compound comprising (I). The
 CC compound is useful for diagnosing or treating inflammatory disorders,
 CC such as asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
 CC cancer, comprises a membrane translocation domain and a NEMO binding
 CC sequence.

XX PS Claim 6; Page 23; 37pp; English.

XX PT New compound for diagnosing or treating inflammatory disorders, e.g.
 PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
 PT cancer, comprises a membrane translocation domain and a NEMO binding
 PT sequence.

XX CC The invention describes an anti-inflammatory compound comprising (I). The
 CC compound is useful for diagnosing or treating inflammatory disorders,
 CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
 CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
 CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
 CC Alzheimer's disease or viral infection. This is the amino acid sequence
 CC of an anti-inflammatory peptide that binds to, and down-regulates,
 CC necrosis factor kappa B (NFkB) essential modulator (NEMO).

XX SQ Sequence 11 AA;

Query Match 100.0%; Score 40; DB 6; Length 11;

Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 6; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;
Qy 1 ADWSWA 6
| |||||
Db 3 ADWSWA 8

Search completed: April 27, 2004, 08:55:57
Job time : 56 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 27, 2004, 08:55:32 ; Search time 55 Seconds
 (without alignments)
 30.823 Million cell updates/sec

Title: US-09-847-940C-6
 Perfect score: 6
 Sequence: 1 ADWSWA 6

Scoring table: OLIGO
 Gapop 60.0 , Gapext 60.0

Searched: 1586107 seqs, 282547505 residues

Word size : 0

Total number of hits satisfying chosen parameters:

1586107

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database :	Query	Score	Match	Length	DB	ID	Description
	A_Geneseq_29Jan04:*	1:	geneseqp1980s:*	6	5	AAM48538	Aam48538 Anti-infl
		2:	geneseqp1990s:*	6	5	AAM48570	Aam48570 Anti-infl
		3:	geneseqp2000s:*	6	6	ADA61814	Ada61814 NFKB esse
		4:	geneseqp2001s:*	6	6	ADA61846	Ada61846 NFKB esse
		5:	geneseqp2002s:*	6	100.0	7	Aam48574 Anti-infl
		6:	geneseqp2003bs:*	6	100.0	7	ADA61850 NFKB esse
		7:	geneseqp2003bs:*	6	100.0	8	Aam48575 Anti-infl
		8:	geneseqp2004s:*	6	100.0	8	Aam48567 Anti-infl
		9:		6	100.0	8	ADA61851 NFKB esse
		10:		6	100.0	8	ADA61843 NFKB esse
		11:		6	100.0	9	Aam48573 Anti-infl
		12:		6	100.0	9	Aam48566 Anti-infl
		13:		6	100.0	9	Aam48569 Anti-infl
		14:		6	100.0	9	Aam48572 Anti-infl
		15:		6	100.0	9	ADA61848 NFKB esse
		16:		6	100.0	9	ADA61841 NFKB esse
		17:		6	100.0	9	ADA61849 NFKB esse
		18:		6	100.0	9	ADA61845 NFKB esse
		19:		6	100.0	9	ADA61842 NFKB esse
		20:		6	100.0	10	Aam48568 Anti-infl
		21:		6	100.0	10	Aam48571 Anti-infl
		22:		6	100.0	10	ADA61844 NFKB esse
		23:		6	100.0	10	ADA61847 NFKB esse
		24:		6	100.0	11	Aam48565 Anti-infl
		25:		6	100.0	11	ADA61840 NFKB esse

ALIGNMENTS

RESULT 1
 AAM48538 standard; peptide; 6 AA.
 XX
 XX
 AC
 XX
 DT 20-MAR-2002 (first entry)

DE Anti-inflammatory peptide SEQ ID NO 41.
 XX
 KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
 KW cytokine; NFKappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis; arthritis.
 XX
 OS Synthetic.
 XX
 PN WO200183554-A2.

XX
 PD 08-NOV-2001.
 XX
 PF 02-MAY-2001; 2001WO-US014346.

XX
 PR 02-MAY-2000; 2000US-0201261P.
 PR 22-AUG-2000; 2000US-00643260.

XX
 PA (PRAE-) PRAECIS PHARM INC.
 PA (UYYA) UNIV YALE.
 XX
 DR WPI; 2002-121889/16.

XX
 PI May MJ, Ghosh S, Findeis MA, Phillips K,
 XX
 DR WPI; Page 61; 88pp; English.

XX
 PT Novel antiinflammatory compound comprising membrane translocation domain
 PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
 PT activation, and for treating asthma, lung inflammation, psoriasis.

CC The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
 CC

antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic, antirheumatic, antiarthritic, osteopathic, antibacterial, immunosuppressive, dermatological, neuroprotective, nootropic, antiatherosclerotic, virucide and antiallergic activity. The compounds act as selective inhibitors of cytokine-mediated NFkappaB activation by blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding domain that results in inhibition of IKKbeta kinase activation and subsequent decreased phosphorylation of IkappaB. The compounds are useful for treating inflammatory disorders, e.g. asthma, lung inflammation or cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, bursitis, autoimmune diseases such as lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; viral infections; and ataxia telangiectasia. The compounds are also useful for treating pro-inflammatory responses such as allergies, urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, sunburn, aging and arthritis

SQ Sequence 6 AA;

Query Match 100.0%; Score 6; DB 5; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6

Db 1 ADWSWA 6

RESULT 2
AAM48570
ID AAM48570 standard; peptide; 6 AA.
XX
AC AAM48570;
XX DT 20-MAR-2002 (first entry)

DE Anti-inflammatory peptide SEQ ID NO 73.

XX KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic; virucide; KW antirheumatic; antiarthritic; osteopathic; antibacterial; immunosuppressive; KW membrane translocation domain; NEMO binding domain; eczema; KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis; KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease; KW autoimmune disorder; multiple sclerosis; transplant rejection; KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection; KW ataxia telangiectasia; allergy; anaphylaxis; arthritis; KW OS Synthetic.
XX PN WO200183554-A2.
XX PD 08-NOV-2001.
XX PF 02-MAY-2001; 2001WO-US014346.
XX PR 02-MAY-2000; 2000US-0201261P.
PR 22-AUG-2000; 2000US-00643260.
XX PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA) UNIV YALE.

XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX DR 2002-121889/16.
XX PT Novel antiinflammatory compound comprising membrane translocation domain fused to NEMO binding sequence, useful for blocking nuclear factor kappaB activation, and for treating asthma, lung inflammation, psoriasis.
XX PT
XX PI May MJ, Ghosh S, Findeis MA, Phillips K, Hanning G;
XX DR WPI; 2003-596541/56.

CC The invention relates to an antiinflammatory compound (especially CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620- CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic, CC antirheumatic, antiarthritic, osteopathic, antibacterial, immunosuppressive, dermatological, neuroprotective, nootropic, CC antatherosclerotic, virucide and antiallergic activity. The compounds act as selective inhibitors of IkappaB kinase beta (IKKbeta) at the NEMO binding CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding CC domain that results in inhibition of IKKbeta kinase activation and subsequent decreased phosphorylation of IkappaB. The compounds are useful CC for treating inflammatory disorders, e.g. asthma, lung inflammation or cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; CC viral infections; and ataxia telangiectasia. The compounds are also useful CC for treating pro-inflammatory responses such as allergies, CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, CC sunburn, aging and arthritis

XX SQ Sequence 6 AA;

Query Match 100.0%; Score 6; DB 5; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6

Db 1 ADWSWA 6

RESULT 3
ADA61814
ID ADA61814 standard; peptide; 6 AA.
XX AC ADA61814;
XX DT 20-NOV-2003 (first entry)
XX NFkB essential modulator (NEMO) binding peptide #14.
DE XX NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis; KW inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis; Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator.
XX OS Unidentified.
XX PN US2003054999-A1.
XX PD 20-MAR-2003.
XX PF 02-MAY-2001; 2001US-00847946.
XX PR 02-MAY-2000; 2000US-0201261P.
PR 02-MAY-2000; 2000US-00643260.
XX PA (PRAE-) PRAECIS PHARM INC.
PA (UYYA) UNIV YALE.

XX PI May MJ, Ghosh S, Findeis MA, Phillips K, Hanning G;
XX DR WPI; 2003-596541/56.

PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX PI May MJ, Ghosh S, Findeis MA, Phillips K, Hanning G;
XX DR WPI; 2003-596541/56.

XX New compound for diagnosing or treating inflammatory disorders, e.g. PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or PT cancer, comprises a membrane translocation domain and a NEMO binding PT sequence.

XX PS Claim 6; Page 23; 37pp; English.

XX The invention describes an anti-inflammatory compound comprising (I). The PT compound is useful for diagnosing or treating inflammatory disorders, such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis, autoimmunity bowel disease, sepsis, vasculitis, autoimmune diseases (e.g. CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis, CC Alzheimer's disease or viral infection. This is the amino acid sequence of an anti-inflammatory peptide that binds to, and down-regulates, CC necrosis factor kappa B (NFkB) essential modulator (NEMO).

XX SQ Sequence 6 AA;

Query Match 100.0%; Score 6; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 1 ADWSWA 6

RESULT 5
ADA61844
ID AAM48574 standard; peptide; 7 AA..

XX DT 20-MAR-2002 (first entry)
XX AC AAM48574;
XX DE Anti-inflammatory peptide SEQ ID NO 77.
XX KW antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic; KW antirheumatic; antiarthritic; osteoprotective; antibacterial; virucide; KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic; KW antiallergic; membrane translocation domain; NEMO binding domain; eczema; KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis; KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease; KW autoimmune disorder; multiple sclerosis; transplant rejection; KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection; KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
XX OS Synthetic.
XX PN WO200183554-A2.
XX PD 08-NOV-2001.
XX PP 02-MAY-2001; 2001WO-US014346.
XX PR 02-MAY-2000; 2000US-0201261P.
XX PA 22-AUG-2000; 2000US-00643260.
XX PA (PRAE-) PRAECIS PHARM INC.
XX PA (UYYA) UNIV YALE.
XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
XX DR WPI; 2002-121889/16.

RESULT 4
ADA61846
ID ADA61846 standard; peptide; 6 AA.

XX AC ADA61846;
XX DT 20-NOV-2003 (first entry)
XX DE NFkB essential modulator (NEMO) binding peptide #46.
XX KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta; KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic; KW dermatological; neuroprotective; immunosuppressive; KW cytostatic; nootropic; virucide; KW gene therapy; anti-inflammatory disorder; inflammatory arthritis; KW psoriasis; rheumatoid arthritis; sepsis; vasculitis; autoimmunity disease; KW inflammatory bowel disease; sepsis; multiple sclerosis; cancer; osteoporosis; KW Alzheimer's disease; viral infection; NF-kappa B essential modulator; KW necrosis factor kappa B essential modulator.
XX OS unidentified.
XX PN US200303054999-A1.
XX PR 20-MAR-2003.
XX PR 02-MAY-2001; 2001US-00847946.
XX PR 02-MAY-2000; 2000US-0201261P.
XX PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.
XX PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX DR WPI; 2003-596541/56.

XX The invention relates to an antiinflammatory compound (especially CC AAM48628-AM48645), comprising a membrane translocation domain CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic, CC antirheumatic, antiarthritic, osteoprotective, antibacterial, and
PT sequence.

CC immunosuppressive, dermatological, neuroprotective, nootropic,
 CC antiatherosclerotic, virucide and antiallergic activity. The compounds
 CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
 CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
 CC domain that results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
 CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
 CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
 CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
 CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
 CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
 CC viral infections; and ataxia telangiectasia. The compounds are also
 CC useful for treating pro-inflammatory responses such as allergies,
 CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
 CC sunburn, aging and arthritis
 XX SQ Sequence 7 AA;

Query Match 100.0%; Score 6; DB 5; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 6
 ADA61850
 ID ADA61850 standard; peptide; 7 AA.
 XX AC ADA61850;

XX 20-NOV-2003 (first entry)
 XX DE NFkB essential modulator (NEMO) binding peptide #50.
 XX NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
 KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
 KW antiarthritic; osteoprotective; antibacterial; immunosuppressive;
 KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
 KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
 KW psoriasis; rheumatoid arthritis; osteoarthritis; osteoporosis;
 KW systemic lupus erythematosus; multiple sclerosis; autoimmune disease;
 KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
 KW necrosis factor kappa B essential modulator.
 XX OS Unidentified.
 XX PN US2003054999-A1.
 XX PD 20-MAR-2003.
 XX PF 02-MAY-2001; 2001US-00847946.
 XX PR 02-MAY-2000; 2000US-0201261P.
 XX PA (MAYM/) MAY M J.
 PA (GHOS/) GHOSH S.
 PA (FIND/) FINDEIS M A.
 PA (PHIL/) PHILLIPS K.
 PA (HANN/) HANNIG G.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
 XX DR 2003-596541/56.

XX WPI; 2003-596541/56.

XX PT New compound for diagnosing or treating inflammatory disorders, e.g.
 PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or
 PT cancer, comprises a membrane translocation domain and a NEMO binding
 PT sequence.

XX CC The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AM48645), comprising a membrane translocation domain
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 PT residues, fused to a NEMO binding sequence (AAM48525-AM48619). The
 PT antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 PT antirheumatic, antiarthritic, osteoprotective, antibacterial, neuroprotective,
 PT immunosuppressive, dermatological, neuroprotective, useful for blocking nuclear factor kappaB
 PT activation, and for treating asthma, lung inflammation, psoriasis.

XX CC The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AM48645), comprising a membrane translocation domain (AAM48620-
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 PT residues, fused to a NEMO binding sequence (AAM48525-AM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 CC antirheumatic, antiarthritic, osteoprotective, antibacterial, neuroprotective,
 CC immunosuppressive, dermatological, neuroprotective, nootropic,

PS Claim 6; Page 23; 37pp; English.

XX The invention describes an anti-inflammatory compound comprising (I). The
 CC compound is useful for diagnosing or treating inflammatory disorders,
 CC such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis,
 CC inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g.
 CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis,
 CC Alzheimer's disease or viral infection. This is the amino acid sequence
 CC of an anti-inflammatory peptide that binds to, and down-regulates,
 CC necrosis factor kappa B (NFkB) essential modulator (NEMO).
 XX SQ Sequence 7 AA;

Query Match 100.0%; Score 6; DB 6; Length 7;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 7
 AAM48575
 ID AAM48575 standard; peptide; 8 AA.
 XX AAM48575;

AC AAM48575;
 XX DT 20-MAR-2002 (first entry)
 XX DE Anti-inflammatory peptide SEQ ID NO 78.
 XX KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteoprotective; antibacterial; virucide;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW antiallergic; membrane translocation domain; eczema;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 XX OS Synthetic.
 XX WO200183554-A2.
 XX PD 08-NOV-2001.
 XX PP 02-MAY-2001; 2001WO-US014346.
 XX PR 02-MAY-2000; 2000US-0201261P.
 PR 22-AUG-2000; 2000US-00643260.
 XX PA (PRAE-) PRAECIS PHARM INC.
 PA (UYYA) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR 2002-121889/16.

XX PT Novel antiinflammatory compound comprising membrane translocation domain
 PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
 PT activation, and for treating asthma, lung inflammation, psoriasis.

XX CC The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AM48645), comprising a membrane translocation domain
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 PT residues, fused to a NEMO binding sequence (AAM48525-AM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 CC antirheumatic, antiarthritic, osteoprotective, antibacterial, neuroprotective,
 CC immunosuppressive, dermatological, neuroprotective, nootropic,

CC antiatherosclerotic, virucide and antiallergic activity. The compounds act as selective inhibitors of cytokine-mediated NFkappaB activation by blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding domain that results in inhibition of IKKbeta kinase activation and subsequent decreased phosphorylation of IKKbeta. The compounds are useful for treating inflammatory disorders, e.g. asthma, lung inflammation or cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; viral infections; and ataxia telangiectasia. The compounds are also useful for treating pro-inflammatory responses such as allergies, urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, sunburn, aging and arthritis.

XX Sequence 8 AA;

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 1 ADWSWA 6

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

RESULT 8

ID AAM48567 standard; peptide; 8 AA.

XX AC AAM48567;
XX DT 20-MAR-2002 (first entry)

XX DE Anti-inflammatory peptide SEQ ID NO 70.

XX KW Antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic; virucide;
KW antirheumatic; antiarthritic; osteoprotective; antibacterial; virucide;
KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
KW antiallergic; membrane translocation domain; NEMO binding domain; eczema;
KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
KW autoimmune disorder; multiple sclerosis; transplant rejection;
KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
KW ataxia telangiectasia; allergy; anaphylaxis; arthritis; arthritis;
KW OS Synthetic.

XX PN WO200183554-A2.
XX PD 08-NOV-2001.
XX PF 02-MAY-2001; 2001WO-US014346.
XX PR 02-MAY-2000; 2000US-0201261P.
XX PR 22-AUG-2000; 2000US-00643260.

XX PA (PRAE-) PRAEIS PHARM INC.
PA (UYYA) UNIV YALE.

XX PI MAY MJ, Ghosh S, Findeis MA, Phillips K;
DR 2002-121889/16.

XX PR 02-MAY-2000; 2000US-00847946.
XX PR 02-MAY-2000; 2000US-0201261P.

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XX PA (MAYM/) MAY M J.
PA (GHOS/) GHOSH S.
PA (FIND/) FINDEIS M A.
PA (PHIL/) PHILLIPS K.
PA (HANN/) HANNIG G.

XX PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;

XX DR 2003-596541/56.

XX PS Claim 6; Page 62; 88PP; English.

CC Novel antiinflammatory compound comprising membrane translocation domain fused to NEMO binding sequence, useful for blocking nuclear factor kappa B activation, and for treating asthma, lung inflammation, psoriasis.

XX The invention relates to an antiinflammatory compound (especially CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620- CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or

CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic, CC antirheumatic, antiarthritic, osteoprotective, antibacterial, CC immunosuppressive, dermatological, neuroprotective, nootropic, CC antiatherosclerotic, virucide and antiallergic activity. The compounds CC act as selective inhibitors of cytokine-mediated NFkappaB activation by CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding CC domain that results in inhibition of IKKbeta kinase activation and CC subsequent decreased phosphorylation of IKKbeta. The compounds are useful CC for treating inflammatory disorders, e.g. asthma, lung inflammation or CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory CC bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; CC viral infections; and ataxia telangiectasia. The compounds are also CC useful for treating pro-inflammatory responses such as allergies, CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, CC sunburn, aging and arthritis.

XX Sequence 8 AA;

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query Match 100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
Db 3 ADWSWA 8

Query

PT cancer, comprises a membrane translocation domain and a NEMO binding
 PT sequence.

XX Claim 6; Page 23; 37pp; English.

PS The invention describes an anti-inflammatory compound comprising (I). The
 PT compound is useful for diagnosing or treating inflammatory disorders, such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g. CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis, CC Alzheimer's disease or viral infection. This is the amino acid sequence CC of an anti-inflammatory peptide that binds to, and down-regulates, CC necrosis factor kappa B (NFkB) essential modulator (NEMO).

XX Sequence 8 AA;
 SQ Query Match 100.0%; Score 6; DB 6; Length 8;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 10
 ADA61843 ID ADA61843 standard; peptide; 8 AA.
 AC ADA61843;
 XX DT 20-NOV-2003 (First entry)

XX NFkB essential modulator (NEMO) binding peptide #43.
 DE NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
 XX antiinflammatory; antiasthmatic; antiparastic; antirheumatic;
 KW antiinflammatory; osteoarthritis; sepsis; vasculitis; autoimmune;
 KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
 KW dermatological; neuroprotective; cytostatic; nootropic; virucide;
 KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
 KW psoriasis; rheumatoid arthritis; sepsis; vasculitis; autoimmune disease;
 KW inflammatory bowel disease; sepsis; vasculitis; cancer; osteoporosis;
 KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
 KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
 KW necrosis factor kappa B essential modulator.

XX Unidentified.
 PN US2003054999-A1.

XX PD 20-MAR-2003.

PP 02-MAY-2001; 2001US-00847946.

XX PR 02-MAY-2000; 2000US-0201261P.

XX PR 02-MAY-2000; 2000US-0201261P.

XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR 2000183554-A2.
 XX PR 02-MAY-2000; 2000US-0201261P.
 XX PR 22-AUG-2000; 2000US-00643260.
 XX PA (PRAE-) PRAECIS PHARM INC.
 PA (UYYA) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;

XX WPI; 2002-121889/16.

XX PT Novel antiinflammatory compound comprising membrane translocation domain PT fused to NEMO binding sequence (AM48525-AM48619). The
 PT antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic, CC antiarthritic, antibacterial, antiviral, neuroprotective, nootropic, CC immunosuppressive, dermatological, virucide and antiallergic activity. The compounds CC act as selective inhibitors of cytokine-mediated NFkappaB activation by

PT The invention describes an anti-inflammatory compound comprising (I). The
 PT compound is useful for diagnosing or treating inflammatory disorders, such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g. CC systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis, CC Alzheimer's disease or viral infection. This is the amino acid sequence CC of an anti-inflammatory peptide that binds to, and down-regulates, CC necrosis factor kappa B (NFkB) essential modulator (NEMO).

XX Sequence 8 AA;
 SQ Query Match 100.0%; Score 6; DB 6; Length 8;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 ID AAM48573 standard; peptide; 9 AA.
 AC AAM48573;
 XX DT 20-MAR-2002 (First entry)
 XX ID AAM48573 standard; peptide SEQ ID NO 76.
 DE Anti-inflammatory peptide
 XX AAM48573;
 AC AAM48573;
 XX DT 20-MAR-2002 (First entry)
 XX ID AAM48573 standard; peptide SEQ ID NO 76.
 DE Anti-inflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 XX KW antirheumatic; antiarthritic; osteoarthritis; sepsis; vasculitis; autoimmune;
 KW immunosuppressive; dermatological; neuroprotective; antibacterial; virucide;
 KW antiallergic; membrane translocation domain; NBMO binding domain; eczema;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 XX OS Synthetic.
 XX PN WO200183554-A2.
 XX PR 02-MAY-2001; 2001WO-US014346.
 XX PR 02-MAY-2000; 2000US-0201261P.
 XX PR 22-AUG-2000; 2000US-00643260.
 XX PA (PRAE-) PRAECIS PHARM INC.
 PA (UYYA) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;

XX WPI; 2002-121889/16.

CC The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain (AM48620-
 CC AM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 CC residues, fused to a NEMO binding sequence (AM48525-AM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 CC antiarthritic, antibacterial, antiviral, neuroprotective, nootropic,
 CC immunosuppressive, dermatological, virucide and antiallergic activity. The compounds
 CC act as selective inhibitors of cytokine-mediated NFkappaB activation by

CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
 CC domain that results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
 CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
 CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
 CC bowel disease, sepsis, vasculitis, buritis; autoimmune diseases such as
 CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
 CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
 CC viral infections; and ataxia telangiectasia. The compounds are also
 CC useful for treating pro-inflammatory responses such as allergies,
 CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
 CC sunburn, aging and arthritis
 XX SQ Sequence 9 AA;

Query Match 100.0%; Score 6; DB 5; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 2 ADWSWA 7

RESULT 12
 ID AAM48566 standard; peptide: 9 AA.
 XX AC AAM48566;
 XX DT 20-MAR-2002 (first entry)

DE Anti-inflammatory peptide SEQ ID NO 69.
 XX KW Antinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteoprotective; antibacterial; viricide;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 OS Synthetic.
 XX WO200183554-A2.
 XX PD 08-NOV-2001.
 XX PF 02-MAY-2001; 2001WO-US014346.
 XX PR 02-MAY-2000; 2000US-0201261P.
 PR 22-AUG-2000; 2000US-00643260.
 XX PA (PRAE-) PRAECIS PHARM INC.
 PA (UYA) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR WPI; 2002-121889/16.

XX PS Novel antiinflammatory compound comprising membrane translocation domain
 PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
 PT activation, and for treating asthma, lung inflammation, psoriasis.
 XX
 XX PS Claim 6; Page 62; 88pp; English.
 XX The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 CC

CC antirheumatic, antiarthritic, osteopathic, antibacterial, nootropic,
 CC immunosuppressive, dermatological, neuroprotective, antiatherosclerotic, viricide and antiallergic activity. The compounds
 CC act as selective inhibitors of cytokine-mediated NFkappaB activation by
 CC blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
 CC domain that results in inhibition of IKKbeta kinase activation and
 CC subsequent decreased phosphorylation of IkappaB. The compounds are useful
 CC for treating inflammatory disorders, e.g. asthma, lung inflammation or
 CC cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
 CC bowel disease, sepsis, vasculitis, buritis; autoimmune diseases such as
 CC lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
 CC transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis;
 CC viral infections; and ataxia telangiectasia. The compounds are also
 CC useful for treating pro-inflammatory responses such as allergies,
 CC urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
 CC sunburn, aging and arthritis
 XX SQ Sequence 9 AA;

Query Match 100.0%; Score 6; DB 5; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1.4e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 13
 ID AAM48569 standard; peptide: 9 AA.
 XX AC AAM48569;
 XX DT 20-MAR-2002 (first entry)
 DE Anti-inflammatory peptide SEQ ID NO 72.
 XX KW Antinflammatory; antiasthmatic; cytostatic; antipsoriatic; nootropic;
 KW antirheumatic; antiarthritic; osteoprotective; antibacterial; viricide;
 KW immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
 KW cytokine; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
 KW rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
 KW autoimmune disorder; multiple sclerosis; transplant rejection;
 KW osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
 KW ataxia telangiectasia; allergy; anaphylaxis; arthritis.
 XX OS Synthetic.
 XX WO200183554-A2.
 XX PD 08-NOV-2001.
 XX PF 02-MAY-2001; 2001WO-US014346.
 XX PR 02-MAY-2000; 2000US-0201261P.
 PR 22-AUG-2000; 2000US-00643260.
 XX PA (PRAE-) PRAECIS PHARM INC.
 PA (UYA) UNIV YALE.
 XX PI May MJ, Ghosh S, Findeis MA, Phillips K;
 XX DR WPI; 2002-121889/16.

XX PT Novel antiinflammatory compound comprising membrane translocation domain
 PT fused to NEMO binding sequence, useful for blocking nuclear factor kappaB
 PT activation, and for treating asthma, lung inflammation, psoriasis.
 XX PS Claim 6; Page 62; 88pp; English.
 CC The invention relates to an antiinflammatory compound (especially
 CC AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
 CC AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
 CC residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
 CC antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
 CC

AAM48628-AAM48645, comprising a membrane translocation domain (AAM48620-AAM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic, antirheumatic, antiarthritic, osteopathic, antibacterial, immunosuppressive, dermatological, neuroprotective, nootropic, antiatherosclerotic, virucide and antiallergic activity. The compounds act as selective inhibitors of cytokine-mediated NFkappaB activation by blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding domain that results in inhibition of IKKbeta kinase activation and subsequent decreased phosphorylation of IKKappaB. The compounds are useful for treating inflammatory disorders, e.g. asthma, lung inflammation or cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis; transplant rejection; osteoporosis; Alzheimer's disease; atherosclerosis; viral infections; and ataxia telangiectasia. The compounds are also useful for treating pro-inflammatory responses such as allergies, urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis, sunburn, aging and arthritis.

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Query Match 100.0%; Score 6; DB 5; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

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— — — —
2y 1 ADWSWA 6
2b 1 ADWSWA 6

RESULT 14
ID AAM48572 standard; peptide; 9 AA.
XXX

0-MAR-2002 (first entry)
anti-inflammatory peptide SEQ ID NO 75.

antiinflammatory; antiasthmatic; cytostatic; antipsoriatic; notropic;
antirheumatic; antiarthritic; osteopathic; antibacterial; virucide;
immunosuppressive; dermatological; neuroprotective; antiatherosclerotic;
antiallergic; membrane translocation domain; NEMO binding domain; eczema;
lytikone; NFkappaB; IkappaB kinase beta; IKKbeta; cancer; psoriasis;
rheumatoid arthritis; osteoarthritis; inflammatory bowel disease;
autoimmune disorder; multiple sclerosis; transplant rejection;
osteoporosis; Alzheimer's disease; atherosclerosis; viral infection;
ataxia telangiectasia; allergy; anaphylaxis; arthritis.

10200183554-A2.

2-MAY-2001; 2001WO-US014346.

xx Claim 6; Page 62; 88pp; English.
xx The invention relates to an antiinflammatory compound (especially
xx AAM48628-AAM48645), comprising a membrane translocation domain (AAM48620-
xx AMM48627 or AAM48646-AAM48651) which comprises from 6-15 amino acid
xx residues, fused to a NEMO binding sequence (AAM48525-AAM48619). The
xx antiinflammatory compounds have antiasthmatic, cytostatic, antipsoriatic,
xx antirheumatic, antiarthritic, osteopathic, antibacterial,
xx immunosuppressive, dermatological, neuroprotective, nootropic,
xx antiatherosclerotic, virucide and antiallergic activity. The compounds
xx act as selective inhibitors of cytokine-mediated NFkappaB activation by
xx blocking interaction of IkappaB kinase beta (IKKbeta) at the NEMO binding
xx domain that results in inhibition of IKKbeta kinase activation and
xx subsequent decreased phosphorylation of IkappaB. The compounds are useful
xx for treating inflammatory disorders, e.g. asthma, lung inflammation or
xx cancer, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory
xx bowel disease, sepsis, vasculitis, bursitis; autoimmune diseases such as
xx lupus, polymyalgia, scleroderma, granulomatosis, multiple sclerosis;
xx transplant rejection; Alzheimer's disease; atherosclerosis;
xx viral infections; and ataxia telangiectasia. The compounds are also
xx useful for treating pro-inflammatory responses such as allergies,
xx urticaria, anaphylaxis, drug or food sensitivity, eczema, dermatitis,
xx sunburn, aging and arthritis
xx Sequence 9 AA:

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Query Match          100.0%;  Score 6;  DB 5;  Length 9;
Best Local Similarity 100.0%;  Pred. No. 1.4e+06;
Matches 6;  Conservative 0;  Mismatches 0;  Indels 0;
Gaps 0;

Qy      1 ADWSWA 6
      ||||| |
      3 ADWSWA 8

Db      3 ADWSWA 8

RESULT 15
ADA61848
ID  ADA61848 standard; peptide; 9 AA.
XXX
AC
ADA61848;
XXX
DT 20-NOV-2003 (first entry)
XXX
DE NFKB essential modulator (NEMO) binding peptide #48.
XXX
KW NEMO binding domain; NBD; I kappa B kinase beta; IKKbeta;
KW antiinflammatory; antiasthmatic; antipsoriatic; antirheumatic;
KW antiarthritic; osteopathic; antibacterial; immunosuppressive;
KW dermatological; neuroprotective; cytoprotective; nootropic; virucide;
KW gene therapy; anti-inflammatory; inflammatory disorder; asthma;
KW psoriasis; rheumatoid arthritis; osteoarthritis; inflammatory bowel disease; sepsis; vasculitis; autoimmune disease;
KW systemic lupus erythematosus; multiple sclerosis; cancer; osteoporosis;
KW Alzheimer's disease; viral infection; NF-kappa B essential modulator;
KW necrosis factor kappa B essential modulator;
KW

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OS	Unidentified.
XX	
PN	US2003054999-A1.
XX	
PD	20-MAR-2003.
XX	
PF	02-MAY-2001; 2001US-00847946.
XX	
PR	02-MAY-2000; 2000US-0201261P.
XX	
PA	(MAYM/) MAY M. J.
PA	(GHOS/) GHOSH S.
PA	(FIND/) FINDEIS M. A.
PA	(PHIL/) PHILLIPS K.
PA	(HANN/) HANNIG G.
XX	

PI May MJ, Ghosh S, Findeis MA, Phillips K, Hannig G;
XX WPI; 2003-596541/56.

XX New compound for diagnosing or treating inflammatory disorders, e.g. PT asthma, psoriasis, rheumatoid arthritis, inflammatory bowel disease or cancer, comprises a membrane translocation domain and a NEMO binding sequence.

XX PS Claim 6; Page 23; 37pp; English.

CC The invention describes an anti-inflammatory compound comprising (I). The compound is useful for diagnosing or treating inflammatory disorders, such as asthma, psoriasis, rheumatoid arthritis, osteoarthritis, inflammatory bowel disease, sepsis, vasculitis, autoimmune diseases (e.g. systemic lupus erythematosus), multiple sclerosis, cancer, osteoporosis, Alzheimer's disease or viral infection. This is the amino acid sequence of an anti-inflammatory peptide that binds to, and down-regulates, necrosis factor kappa B (NFKB) essential modulator (NEMO).

XX Sequence 9 AA;

Query Match 100.0%; Score 6; DB 6; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.4e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ADWSWA 6
 |||||||
Db 3 ADWSWA 8

Search completed: April 27, 2004, 08:57:04
Job time : 56 secs

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OM protein - protein search, using sw model

Run on: April 27, 2004, 08:55:33 ; Search time 40 Seconds
 47.328 Million cell updates/sec (without alignments)

Title: US-09-847-940C-6
 Perfect score: 6

Sequence: 1 ADWSWA 6

Scoring table: OLIGO
 Gapext 60.0 , Gapext 60.0

Searched: 1017041 seqs, 315518202 residues

Word size : 0

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : SPTREMBL 25;*

1: sp_archaea:*

2: sp_bacteria:*

3: sp_fungi:*

4: sp_human:*

5: sp_invertebrate:*

6: sp_mammal:*

7: sp_mhc:*

8: sp_organelle:*

9: sp_phage:*

10: sp_plant:*

11: sp_rabbit:*

12: sp_virus:*

13: sp_vertebrate:*

14: sp_unclassified:*

15: sp_rvirus:*

16: sp_bacteriaph:*

17: sp_archeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	5	83.3	205	16	Q9ACRS	Q9acrs streptomyce
2	5	83.3	227	4	Q8IXK8	Q8ixk8 homo sapien
3	5	83.3	228	8	Q7YGU8	Q7ygu8 sphenodon p
4	5	83.3	236	3	Q8NQJY9	Q8nqjy9 bionectria
5	5	83.3	242	12	Q919K8	Q919k8 culex nigri
6	5	83.3	274	16	Q8G659	Q8g659 bifidobac
7	5	83.3	355	11	Q8BIT9	Q8bit9 mus musculu
8	5	83.3	358	10	Q50002	Q50002 prunus arme
9	5	83.3	374	16	Q9HZ10	Q9hz10 pseudomonas
10	5	83.3	375	5	Q86KSO	Q86ks0 dictyosteli
11	5	83.3	426	5	Q86KF9	Q86kf9 dictyosteli
12	5	83.3	433	16	Q8P4A1	Q8p4a1 xanthomonas
13	5	83.3	438	16	Q8PFV8	Q8pfv8 xanthomonas
14	5	83.3	452	4	Q96AB7	Q96ab7 homo sapien
15	5	83.3	463	5	Q8MMJ0	Q8mmj0 apis cerana
16	5	83.3	470	12	Q7TF27	Q7tf27 influenza a

ALIGNMENTS		RESULT 1		SEQUENCE FROM N.A.	
ID	Q9ACRS	ID	Q9ACRS	ID	A3 (2);
AC	Q9ACRS;	AC	Q9ACRS;	AC	SEQUENCE FROM N.A.
DT	01-JUN-2001 (TrEMBLrel. 17, Created)	DT	01-JUN-2001 (TrEMBLrel. 17, Last sequence update)	DT	SEQUENCE FROM N.A.
DT	01-JUN-2003 (TrEMBLrel. 24, Last annotation update)	DT	01-JUN-2003 (TrEMBLrel. 24, Last annotation update)	DT	SEQUENCE FROM N.A.
DE	Hypothetical protein SCP1.253.	DE	Hypothetical protein SCP1.253.	DE	SEQUENCE FROM N.A.
GN	SCP1.253.	GN	SCP1.253.	GN	SEQUENCE FROM N.A.
OS	Streptomyces coelicolor.	OS	Streptomyces coelicolor.	OS	SEQUENCE FROM N.A.
OG	Plasmid SCP1.	OG	Plasmid SCP1.	OG	SEQUENCE FROM N.A.
OC	Bacteria; Actinobacteria; Actinomycetales; Streptomyces; Streptomyctaceae; Streptomyces.	OC	Bacteria; Actinobacteria; Actinomycetales; Streptomyces; Streptomyctaceae; Streptomyces.	OC	SEQUENCE FROM N.A.
OX	NCBI_TaxID=1902;	OX	NCBI_TaxID=1902;	OX	SEQUENCE FROM N.A.
RN	[1]	RN	[1]	RN	SEQUENCE FROM N.A.
RP		RP		RP	SEQUENCE FROM N.A.
RC		RC		RC	SEQUENCE FROM N.A.
RE		RE		RE	SEQUENCE FROM N.A.
MEDLINE	=21996410; PubMed=12000953;	MEDLINE	=21996410; PubMed=12000953;	MEDLINE	SEQUENCE FROM N.A.
RA	Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,	RA	Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,	RA	SEQUENCE FROM N.A.
RA	Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,	RA	Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,	RA	SEQUENCE FROM N.A.
RA	Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,	RA	Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,	RA	SEQUENCE FROM N.A.
RA	Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,	RA	Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,	RA	SEQUENCE FROM N.A.
RA	Huang C.-H., Kieser T., Larke L., Murphy L., Oliver K., O'Neil S.,	RA	Huang C.-H., Kieser T., Larke L., Murphy L., Oliver K., O'Neil S.,	RA	SEQUENCE FROM N.A.
RA	Rabbinkowitzsch E., Saunders D., Sharp S., Squares R., Taylor S.,	RA	Rabbinkowitzsch E., Saunders D., Sharp S., Squares R., Taylor S.,	RA	SEQUENCE FROM N.A.
RA	Seeger K., Warren T., Wietzorek A., Woodward J., Barrell B.G., Parkhill J.,	RA	Seeger K., Warren T., Wietzorek A., Woodward J., Barrell B.G., Parkhill J.,	RA	SEQUENCE FROM N.A.
RA	Hopwood D.A.;	RA	Hopwood D.A.;	RA	SEQUENCE FROM N.A.
RT	"Complete genome sequence of the model actinomycete Streptomyces coelicolor A3 (2)." ;	RT	"Complete genome sequence of the model actinomycete Streptomyces coelicolor A3 (2)." ;	RT	SEQUENCE FROM N.A.
RL	Nature 417:141-147 (2002).	RL	Nature 417:141-147 (2002).	RL	SEQUENCE FROM N.A.
DR	EMBL; AL590464; CAC36779.1; -	DR	EMBL; AL590464; CAC36779.1; -	DR	SEQUENCE FROM N.A.
DR	GO; GO:0046821; C:extrachromosomal DNA; IEA.	DR	GO; GO:0046821; C:extrachromosomal DNA; IEA.	DR	SEQUENCE FROM N.A.
KW	Hypothetical protein; Plasmid; Complete proteome.	KW	Hypothetical protein; Plasmid; Complete proteome.	KW	SEQUENCE FROM N.A.
SQ	SEQUENCE 205 AA; 23051 MW; 6602396CF93F2D9 CRC64;	SQ	SEQUENCE 205 AA; 23051 MW; 6602396CF93F2D9 CRC64;	SQ	SEQUENCE FROM N.A.
	Query Match 83.3%; Score 5; DB 16; Length 205;				
	Best Local Similarity 100.0%; Pred. No. 44;				
	Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				

Qy	1 ADWSW 5 	PRT; 227 AA.	
Db	10 ADWSW 14		
RESULT 2			
Q8IXK8	PRELIMINARY;	PRT;	227 AA.
ID Q8IXK8;			
AC DT 01-MAR-2003 (TREMBLrel. 23, Created)			
DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)			
DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)			
DE Similar to hypothetical protein BC017335.			
OS Homo sapiens (Human)			
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
OC NCBI_TaxID=9606;			
RN [1]			
RP SEQUENCE FROM N.A.			
RC TISSUE=Brain;			
RA Strausberg R.;			
RL Submitted (NOV-2002) to the EMBL/GenBank/DDBJ databases.			
DR BC040173; AAH40173.1; -.			
KW Hypothetical protein.			
SQ SEQUENCE 227 AA; 25487 MW; F11A71EA57062A05 CRC64;			
Query Match 83.3%; Score 5; DB 4; Length 227; Best Local Similarity 100.0%; Pred. No. 48; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy 1 ADWSW 5			
Db 113 ADWSW 117			
RESULT 3			
Q7YGU8	PRELIMINARY;	PRT;	228 AA.
ID Q7YGU8;			
AC DT 01-OCT-2003 (TREMBLrel. 25, Created)			
DT 01-OCT-2003 (TREMBLrel. 25, Last sequence update)			
DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)			
DE Cytochrome oxidase subunit II.			
OS Sphenodon punctatus (Hatteria) (Tuatara).			
OG Mitochondrion.			
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Lepidosauria; Sphenodontia; Sphenodontidae; Sphenodon.			
OC NCBI_TaxID=8508;			
RN [1]			
RP SEQUENCE FROM N.A.			
RA Rest J.S., Ast J.C., Austin C.C., Waddell P.J., Tibbets E.A.,			
RA Hay J.M., Mindell D.P.;			
RT "Molecular systematics of primary reptilian lineages and the tuatara mitochondrial genome.";			
RT Mol. Phylogenet. Evol. 0:0-0 (2003).			
DR AF534390; AAP42708.1; -.			
KW Mitochondrion.			
SQ SEQUENCE 228 AA; 25903 MW; AC52448F76C9F0A4 CRC64;			
Query Match 83.3%; Score 5; DB 8; Length 228; Best Local Similarity 100.0%; Pred. No. 48; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy 2 DWSWA 6 			
Db 221 DWSWA 225			
RESULT 4			
Q8NQJY9	PRELIMINARY;	PRT;	236 AA.
ID Q8NQJY9;			
AC DT 01-OCT-2002 (TREMBLrel. 22, Created)			
RN [1]			
RP SEQUENCE FROM N.A.			
RX MEDLINE=22067395; PubMed=12073090;			
RA Goedegebuur F., Fowler T., Phillips J., van der Kley P., van Solingen P., Dankmeyer L., Power S.D.;			
RA "Cloning and relational analysis of 15 novel fungal endoglucanases from family 12 glycosyl hydrolase.";			
RT Curr. Genet. 41:89-98 (2002).			
DR EMBL; AF435065; AAM77708.1; -.			
DR GO; GO:0008810; F: cellulase activity; IEA.			
DR GO; GO:0000272; P: polysaccharide catabolism; IEA.			
DR InterPro; IPR008985; ConA-like lec 91.			
DR InterPro; IPR002594; Glyco_hydro_12.			
DR PFam; PF01670; Glyco_hydro_12; 1.			
DR ProDom; PDO04316; Glyco_hydro_12; 1.			
DR C3D8A7E33F0C41D8 CRC64;			
SQ SEQUENCE 236 AA; 26024 MW; C3D8A7E33F0C41D8 CRC64;			
Query Match 83.3%; Score 5; DB 3; Length 236; Best Local Similarity 100.0%; Pred. No. 50; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy 1 ADWSW 5			
Db 63 ADWSW 67			
RESULT 5			
Q919K8	PRELIMINARY;	PRT;	242 AA.
ID Q919K8;			
AC DT 01-DEC-2001 (TREMBLrel. 19, Created)			
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)			
DT 01-DEC-2001 (TREMBLrel. 19, Last annotation update)			
DE CUN068 hypothetical protein.			
GN CUN068.			
OS Culex nigripalpus baculovirus.			
OC Viruses; dsDNA viruses, no RNA stage; Baculoviridae.			
OC NCBI_TaxID=130556;			
RN [1]			
RP SEQUENCE FROM N.A.			
RC STRAIN=Florida1997;			
RX MEDLINE=21488685; PubMed=11602755;			
RA Afonso C.L., Tulman E.R., Lu Z., Balinsky C.A., Moser B.A.,			
RA Beclen J.J., Rock D.L., Kutish G.F.;			
RT "Genome Sequence of a Baculovirus Pathogenic for Culex nigripalpus.";			
RI J. Virol. 75:11157-11165 (2001).			
RN [2]			
RP SEQUENCE FROM N.A.			
RC Afonso C.L., Tulman E.R., Lu Z., Balinsky C.A., Moser B.A.,			
RA Beclen J.J., Rock D.L., Kutish G.F.;			
RA Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.			
DR AF403738; AAK94146.1; -.			
KW Hypothetical protein.			
SQ SEQUENCE 242 AA; 27222 MW; 6014967531110E52 CRC64;			
Query Match 83.3%; Score 5; DB 12; Length 242; Best Local Similarity 100.0%; Pred. No. 51; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
Qy 2 DWSWA 6 			
Db 80 DWSWA 84			

RESULT	Qy	Db	Matches	5; Conservative	0; Mismatches	0; Indels	0; Gaps	0;
6	Q8G659; PRELIMINARY;	PRT;	274 AA.					
	ID Q8G659;							
	AC Q8G659;							
	DT 01-MAR-2003 (TREMBLrel. 23, Created)							
	DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)							
	DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)							
	DE Probable dihydroorotate dehydrogenase electron transfer subunit							
	GN PYRK OR BL0790.							
	OS Bifidobacterium longum.							
	OC Bacteria; Actinobacteria; Actinobacteridae; Bifidobacteriales;							
	OC Bifidobacteriaceae; Bifidobacterium.							
	OX NCBI_TaxID=216816;							
	RN [1]							
	RP SEQUENCE FROM N.A.							
	RC STRAIN=NCC 2705;							
	RX MEDLINE=22294977; PubMed=12381787;							
	RA Schell M.A., Karmirantzou M., Snel B., Villanova D., Berger B., Pessi G., Zwahlen M.-C., Desiere F., Bork P., Delley M., Pridmore R.D., Arigoni F.;							
	RA "The genome sequence of <i>Bifidobacterium longum</i> reflects its adaptation to the human gastrointestinal tract.";							
	RL PROC. NATL. ACAD. SCI. U.S.A. 99:14422-14427 (2002);							
	DR EMBL; AE014701; AAN24605; 1.							
	DR GO; GO:0016491; P:oxidoreductase activity; IEA.							
	DR GO; GO:0006118; P:electron transport; IEA.							
	DR InterPro; IPR008333; FAD_binding_6.							
	DR Pfam; PF00970; FAD_binding_6; 1.							
	KW Complete proteome.							
	SQ SEQUENCE 274 AA; 29978 MW; 971E0016E79636DB CRC64;							
	Query Match 83.3%; Score 5; DB 16; Length 274;							
	Best Local Similarity 100.0%; Pred. No. 57;							
	Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;							
	Qy 1 ADWSW 5							
	Db 171 ADWSW 175							
	RESULT 7							
	Q8BIT9; PRELIMINARY;	PRT;	355 AA.					
	ID Q8BIT9;							
	AC Q8BIT9;							
	DT 01-MAR-2003 (TREMBLrel. 23, Created)							
	DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)							
	DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)							
	DE Mitochondrial ribosomal protein L41 homolog.							
	GN 281043J12RIK.							
	OS Mus musculus (Mouse).							
	OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;							
	OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.							
	OX NCBI_TaxID=10090;							
	RN [1]							
	RP SEQUENCE FROM N.A.							
	RC STRAIN=NOD; TISSUE=Thymus;							
	RX MEDLINE=22354683; PubMed=12466851;							
	RA The FANTOM Consortium,							
	RA the RIKEN Genome Exploration Research Group Phase I & II Team;							
	RT "Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs.";							
	RT RL Nature 420:563-573 (2002).							
	DR EMBL; AK08799; BAC0404.1; -.							
	DR MGD; MGI:1914478; 281043J12RIK.							
	DR InterPro; IPR001680; WD40.							
	DR Pfam; PF00400; WD40; 2.							
	DR SMART; SM00320; WD40; 4.							
	DR PROSITE; PS00678; WD_REPEATS_1; 1.							
	DR PROSITE; PS50294; WD_REPEATS_REGION; 1.							
	SQ SEQUENCE 355 AA; 40183 MW; FEF8546127402DD58 CRC64;							
	Query Match 83.3%; Score 5; DB 11; Length 355;							
	Best Local Similarity 100.0%; Pred. No. 72;							

RA	Stover C.K., Pham X.-Q.T., Erwin A.L., Mizoguchi S.D., Warrener P., Hickey M.J., Brinkman F.S.L., Hufnagle W.O., Kowalik D.J., Lagrou M., Garber R.L., Goltz L., Tolentino E., Westbrock-Wadman S., Yuan Y., Brody L.L., Coulter S.N., Folger K.R., Kas A., Larbig K., Lim R.M., Smith K.A., Spencer D.H., Wong G.K.-S., Wu Z., Paulsen I.T., Reizer J., Saier M.H., Hancock R.E.W., Lory S., Olson M.V.; RT "Complete genome sequence of <i>Pseudomonas aeruginosa</i> PAO1, an opportunistic pathogen."; Nature 406:959-964 (2000); RL BMBL; AE004746; AAG06618.1; -.	DT 01-JUN-2003 (TREMBLrel. 24, Created) DT 01-JUN-2003 (TREMBLrel. 24, Last sequence update) DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update) DE Similar to <i>Mus musculus</i> (Mouse). Dnaj homolog subfamily B member 5 DE (Heat shock protein Hsp40-3) (Heat shock protein cognate 40) DE (Hsc40). OS Dictyostelium discoideum (Slime mold). OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium. OX NCBI_TaxID=44689; RN [1]
DR	FIR; B83241; B83241.	RP SEQUENCE FROM N.A.
DR	InterPro; IPR007434; DUF482.	RC STRAIN=AX4; RX MEDLINE=22092622; PubMed=12097910;
DR	PFam; PF04339; DUF482; 1.	RA Gloeckner G., Eichinger L., Szafranski K., Pachebat J., Dear P., Lehmann R., Baumgart C., Parra G., April J.F., Guigo R., Kumpf K., Tunggal B., Cox E., Quail M.A., Platzer M., Rosenthal A., Noegel A.A.; RT "Sequence and analysis of chromosome 2 of Dictyostelium discoideum."; Nature 418:79-85 (2002). RN [2]
SQ	Query Match 83.3%; Score 5; DB 16; Length 374; Best Local Similarity 100.0%; Pred. No. 76; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	RP SEQUENCE FROM N.A.
QY	2 DWSWA 6	RC STRAIN=AX4; RA Baumgart C.; RL Submitted (MAR-2003) to the EMBL/GenBank/DDBJ databases. DR EMBL; AC115680; AA051091.1; -.
Db	81 DWSWA 85	DR GO; GO:0003773; F:heat shock protein activity; IEA. DR InterPro; IPR001623; Dnaj_N. DR InterPro; IPR003095; Hsp_Dnaj. DR Pfam; PF00226; Dnaj; 1. DR PRINTS; PRO00625; DNAJPROTEIN. DR SMART; SM00271; Dnaj; 1. DR PROSITE; PS00636; DNAJ_1; 1. DR PROSITE; PS550076; DNAJ_2; 1. KW Heat shock. SQ SEQUENCE 426 AA; 48376 MW; EBF9F37295925727 CRC64; Query Match 83.3%; Score 5; DB 5; Length 426; Best Local Similarity 100.0%; Pred. No. 86; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY	2 DWSWA 6	QY 2 DWSWA 6 Db 127 DWSWA 131
Db	127 DWSWA 131	QY 2 DWSWA 6 Db 127 DWSWA 131
RESULT 10	Q86K50	RESULT 12
ID	Q86K50	ID Q8P4A1
AC	Q86K50;	AC Q8P4A1;
DT	01-JUN-2003 (TREMBLrel. 24, Created)	DT 01-OCT-2002 (TREMBLrel. 22, Created)
DT	01-JUN-2003 (TREMBLrel. 24, Last sequence update)	DT 01-OCT-2002 (TREMBLrel. 22, Last sequence update)
DT	01-OCT-2003 (TREMBLrel. 25, Last annotation update)	DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
DE	Hypothetical protein.	DE Cationic amino acid transporter.
OS	Dictyostelium discoideum (Slime mold). OC Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium. OX NCBI_TaxID=44689; RN [1]	GN XCC3809. OS Xanthomonas campestris (pv. campestris). OC Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales; OC Xanthomonadaceae; Xanthomonas. OX NCBI_TaxID=340; RN [1]
RP	SEQUENCE FROM N.A.	RP SEQUENCE FROM N.A.
RC	SEQUENCE FROM N.A.	RC STRAIN=ATCC 33913 / NCPPB 528;
RA	SEQUENCE FROM N.A.	RA MEDLINE=22022145; PubMed=12024217;
RL	Submitted (MAR-2003) to the EMBL/GenBank/DDBJ databases.	RA da Silva A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R., Quaggio R.B., Monteiros-Vitorelo C.B., Van Sluys M.A., Almeida N.F., Alves L.M.C., do Amaral A.M., Bertolini M.C., Camargo L.E.A., Cannarotta G., Cannavan F., Cardozo J., Chambergo F., Ciapina L.P., Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., Eli-Dorry H., Faria J.B., Ferreira A.J.S., Ferreira R.C.C., Ferro M.I.T., Formighieri E.F., Franco M.C., Greggio C.C., Gruber A., Katsuyama A.M., Kishi L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F., Locali E.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M., Martins E.C., Meidanis J., Menck C.F.M., Miyaki C.Y., Moon D.H., Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R., Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F., Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F.,
DR	InterPro; IPR00581; ILVD_EDD_family.	
DR	PFam; PF04886; PT; 1.	
DR	PROSITE; PS00886; ILVD_EDD_1; 1.	
KW	Hypothetical protein.	
SQ	SEQUENCE 375 AA; 41862 MW; EC9A1D744C56856E CRC64;	
QY	83.3%; Score 5; DB 5; Length 375;	
Db	Best Local Similarity 100.0%; Pred. No. 76; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
QY	2 DWSWA 6	
Db	47 DWSWA 51	
RESULT 11		
Q86KF9		
ID		
AC		

Spinola L.A.F., Takita M.A., Tamura R.E., Teixeira E.C., Tezza R.I.D., Trindade dos Santos M., Truffi D., Tsai S.M., White F.F., Setubal J.C., Kitajima J.P.; "Comparison of the genomes of two Xanthomonas pathogens with differing host specificities."; Nature 417:459-463 (2002); EMBL; AE012502; AACM43483.1; -.	QY	2 DWSWA 6	Best Local Similarity 100.0%; Pred. No. 88; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
GO; GO:0016020; C:membrane; IEA.	DR	183 DWSWA 187	
GO; GO:0005279; F:amino acid-polyamine transporter activity; IEA.	DR		
GO; GO:0006865; P:amino acid transport; IEA.	DR		
GO; GO:0006810; P:transport; IEA.	DR		
InterPro; IPR002293; AA/_rel_permeasel.	DR		
InterPro; IPR004841; Permease region.	DR		
Pfam; PF00324; aa_permeases; 1.	DR		
Complete proteome.	KW		
SEQUENCE 433 AA; 45128 MW; EF217D2A7CS16533 CRC64;	SQ		
Query Match 83.3%; Score 5; DB 16; Length 433; Best Local Similarity 100.0%; Pred. No. 87; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	QY	2 DWSWA 6	RESULT 14
GO; GO:0006865; P:amino acid-polyamine transporter activity; IEA.	DR	Q96AB7	PRELIMINARY;
GO; GO:0006810; P:transport; IEA.	DR	ID Q96AB7	PRT; 452 AA.
InterPro; IPR002293; AA/_rel_permeasel.	DR	AC Q96AB7;	
InterPro; IPR004841; Permease region.	DR	DT 01-DEC-2001 (TREMBLrel. 19, Created)	
Pfam; PF00324; aa_permeases; 1.	DR	DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)	
Complete proteome.	KW	DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)	
SEQUENCE 433 AA; 45128 MW; EF217D2A7CS16533 CRC64;	SQ	DE Hypothetical protein FIJ90634.	
Homosapiens (Human).	OS	OS Homo sapiens (Human).	
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.	OC	OC	
NCBI_TaxID=9606;	OC	OC	
[1]	OX	OX	
SEQUENCE FROM N.A.	RN	RN	
TISSUE=Skin;	RC	RC	
Strausberg R.;	RA	RA	
Submitted (NOV-2001) to the EMBL/GenBank/DBJ databases.	RL	RL	
[2]	RN	RN	
SEQUENCE FROM N.A.	RP	RP	
TISSUE=Placenta;	RC	RC	
Isogai T., Ota T., Nishikawa T., Hayashi K., Otsuki T., Sugiyama T., Suzuki Y., Nagai K., Sugano S., Ishii S., Kawai Hio Y., Saito K., Yamamoto J., Wakamatsu A., Nakamura Y., Kojima S., Nagahari K., Masuho Y., Ono T., Okano K., Yoshikawa Y., Aotsuka S., Sasaki N., Hattori A., Okumura K., Iwayanagi T., Ninomiya K.;	RA	RA	
"NEDO human cDNA sequencing project.";	RT	RT	
Submitted (MAR-2002) to the EMBL/GenBank/DBJ databases.	RL	RL	
EMBL; BCC017335; AAH17335.1;	DR	DR	
EMBL; AK075115; BAC11411.1;	DR	DR	
InterPro; IPR001680; WD40.	DR	DR	
PFam; PF00400; WD40; 2.	DR	DR	
PROSITE; PS00678; WD_REPEATS_1; 2.	DR	DR	
PROSITE; PS50082; WD_REPEATS_2; 1.	DR	DR	
PROSITE; PS50294; WD_REPEATS_REGION; 1.	DR	DR	
KW Hypothetical protein; Repeat; WD repeat.	KW	KW	
SEQUENCE 452 AA; 50575 MW; B79D25EE38096733 CRC64;	SQ	Query Match 83.3%; Score 5; DB 4; Length 452; Best Local Similarity 100.0%; Pred. No. 90; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
SEQUENCE 452 AA; 50575 MW; B79D25EE38096733 CRC64;	SQ	Query Match 83.3%; Score 5; DB 4; Length 452; Best Local Similarity 100.0%; Pred. No. 90; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
[1]	QY	1 ADWSW 5	RESULT 15
SEQUENCE FROM N.A.	RN	1 ADWSW 5	
STRAIN=306 / ATCC 13902 / XV 101; MEDLINE=22022145; PubMed=12024217; da Silva A.C.R., Ferro J.A., Reinach F.C., Farah C.S., Furlan L.R., Quaggio R.B., Monteiro-Vitorello C.B., Van Sluys M.A., Almeida N.F., Alves L.M.C., do Amaral A.M., Bertolini M.C., Camargo L.E.A., Camarotte G., Cannavan F., Cardozo J., Chamborgo F., Ciapina L.P., Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., El-Dorry H., Faria J.B., Ferreira A.J.S., Ferreira R.C.C., Ferro M.I.T., Formighieri E.P., Franco M.C., Greggio C.C., Gruber A., Katsuyama A.M., Kishni L.T., Leite R.P., Lemos E.G.M., Lemos M.V.F., Locali E.C., Machado M.A., Madeira A.M.B.N., Martinez-Rossi N.M., Martins E.C., Meidanis J., Menck C.F.M., Miyaki C.Y., Moon D.H., Moreira L.M., Novo M.T.M., Okura V.K., Oliveira M.C., Oliveira V.R., Pereira H.A., Rossi A., Sena J.A.D., Silva C., de Souza R.F., Spinola L.A.F., Takita M.A., Tamura R.E., Teixeira E.C., Tezza R.I.D., Trindade dos Santos M., Truffi D., Tsai S.M., White F.F., Setubal J.C., Kitajima J.P.;	RA	Q8MMJ0	PRELIMINARY;
"Comparison of the genomes of two Xanthomonas pathogens with differing host specificities.";	RT	AC Q8MMJ0;	PRT; 463 AA.
Nature 417:459-463 (2002); EMBL; AE012036; AACM38706.1; -.	DR	AC Q8MMJ0;	
GO; GO:0016020; C:membrane; IEA.	DR	DT 01-OCT-2002 (TREMBLrel. 22, Created)	
GO; GO:0005279; F:amino acid-polyamine transporter activity; IEA.	DR	DT 01-OCT-2002 (TREMBLrel. 22, Last sequence update)	
GO; GO:0006865; P:amino acid transport; IEA.	DR	DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)	
InterPro; IPR002293; AA/_rel_permeasel.	DR	DE Major royal jelly protein MRJP2 precursor.	
InterPro; IPR004841; Permease region.	DR	GN MRJP2.	
Pfam; PF00324; aa_permeases; 1.	DR	OS Apis cerana (Indian honeybee).	
Complete proteome.	KW	OC Eukaryota; Metazoa; Arthropoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea; Apidae; Apis.	
SEQUENCE 438 AA; 45795 MW; 921AC5AC60A545E2 CRC64;	SQ	OC	
Query Match 83.3%; Score 5; DB 16; Length 438; Best Local Similarity 100.0%; Pred. No. 88; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	QY	2 DWSWA 6	RESULT 16
TISSUE=Nurse heads;	RC	RC Sittipraneed S., Imjongjirak C.;	
Molecular Cloning of Major Royal Jelly Protein (MRJP2) CDNA from Apis RT	RA	RA "Molecular Cloning of Major Royal Jelly Protein (MRJP2) CDNA from Apis	

RT Cerana in Thailand.";
RL Submitted (JUN-2002) to the EMBL/GenBank/DDBJ databases.
DR EMBL; AF525777; AAM88282.1;
DR InterPro; IPR003534; Royaljelly.
DR Pfam; PF03022; MRJP; 1.
DR PRINTS; PR01366; ROYALJELLY.
DR SIGNAL; 1 17 POTENTIAL.
SQ SEQUENCE 463 AA; 52412 MW; D648AE2BAF1EDDE9 CRC64;
Query Match 83.3%; Score 5; DB 5; Length 463;
Best Local Similarity 100.0%; Pred. No. 92;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 DWSWA 6
| | | |
Db 110 DWSWA 114

Search completed: April 27, 2004, 08:57:58
Job time : 42 secs

FT	CARBOHYD	398	398	N-LINKED (GLCNAC. .) (POTENTIAL)	
SQ	SEQUENCE	470 AA;	51989 MW;	D1A6F07460F6F8AD CRC64;	
Query Match	Best Local Similarity	83.3%;	Score 5;	DB 1;	Length 470;
Matches	5; Conservative	100.0%;	Pred. No. 11;	0; Indels	0; Gaps 0;
Qy	1 ADWSW 5				
Db	453 ADWSW 457				
RESULT 2					
NRAM_IADCH					
ID	Q07571;	STANDARD;	PRT;	470 AA.	
AC	01-FEB-1995 (Rel. 31, Created)				
DT	01-FEB-1995 (Rel. 31, Last sequence update)				
DT	28-FEB-2003 (Rel. 41, Last annotation update)				
DE	Neuraminidase (EC 3.2.1.18).				
GN	NA.				
OS	Influenza A virus (strain A/Duck/Hokkaido/8/80).				
OC	Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;				
OC	Influenza A viruses; Influenzavirus A.				
NCBI_TaxID	11358;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RX	Medline=93212520; PubMed=8460490;				
RA	Saito T., Kawaoka Y., Webster R.G.;				
RT	"Phylogenetic analysis of the N8 neuraminidase gene of influenza A				
RT	RT viruses."				
RL	Virology 193: 868-876 (1993).				
CC	-!- FUNCTION: Removes the terminal sialic acid from carbohydrate side chains of the host cell surface proteins and from the viral envelope. Such a reaction prevents self-aggregation and facilitate the mobility of the virus to and from the site of infection.				
CC	-!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-, alpha-(2->8)-glycosidic linkages of terminal sialic residues in oligosaccharides, glycoproteins, glycolipids, colominic acid and synthetic substrates.				
CC	-!- SUBUNIT: Homotetramer.				
CC	-!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped spike on the surface of the virion.				
CC	-!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.				
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CC	EMBL; L06574; AAA43372.1; -.				
CC	DR HSSP; P06820; 2BAT.				
CC	DR InterPro; IPR001860; Glyco_hydro_34.				
CC	DR Pfam; PF00064; neur; 1.				
CC	DR ProDom; PD000431; Glyco_hydro_34; 1.				
CC	KW Hydrolase; Glycosidase; Glycoprotein; Transmembrane.				
FT	FT TRANSMEM 7 38 ANCHOR (BY SIMILARITY).				
FT	FT DOMAIN 39 88 HYPERVARIABLE STALK REGION.				
FT	FT DOMAIN 89 470 HEAD OF NEURAMINIDASE.				
FT	FT ACT_SITE 273 273 BY SIMILARITY.				
FT	FT ACT_SITE 275 275 BY SIMILARITY.				
FT	FT CARBOHYD 46 46 N-LINKED (GLCNAC. .) (POTENTIAL).				
FT	FT CARBOHYD 54 54 N-LINKED (GLCNAC. .) (POTENTIAL).				
FT	FT CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).				
FT	FT CARBOHYD 144 144 N-LINKED (GLCNAC. .) (POTENTIAL).				
FT	FT CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).				
FT	FT CARBOHYD 398 398 N-LINKED (GLCNAC. .) (POTENTIAL).				
SQ	SQ SEQUENCE 470 AA; 52015 MW; E1C1D3E2C650B93C CRC64;				
Query Match	83.3%;	Score 5;	DB 1;	Length 470;	
Best Local Similarity	100.0%;	Pred. No. 11;	0; Indels	0; Gaps 0;	
Matches	5; Conservative	0; Mismatches			
Qy	1 ADWSW 5				
Db	453 ADWSW 457				
RESULT 3					
NRAM_IADH2					
ID	Q07572;	STANDARD;	PRT;	470 AA.	
AC	01-FEB-1995 (Rel. 31, Created)				
DT	01-FEB-1995 (Rel. 31, Last sequence update)				
DT	28-FEB-2003 (Rel. 41, Last annotation update)				
DE	Neuraminidase (EC 3.2.1.18).				
GN	NA.				
OS	Influenza A virus (strain A/Duck/Hokkaido/8/80).				
OC	Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;				
OC	Influenza A viruses; Influenzavirus A.				
NCBI_TaxID	11358;				
RN	[1]				
RP	SEQUENCE FROM N.A.				
RX	Medline=93212520; PubMed=8460490;				
RA	Saito T., Kawaoka Y., Webster R.G.;				
RT	"Phylogenetic analysis of the N8 neuraminidase gene of influenza A				
RT	RT viruses."				
RL	Virology 193: 868-876 (1993).				
CC	-!- FUNCTION: Removes the terminal sialic acid from carbohydrate side chains of the host cell surface proteins and from the viral envelope. Such a reaction prevents self-aggregation and facilitate the mobility of the virus to and from the site of infection.				
CC	-!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-, alpha-(2->8)-glycosidic linkages of terminal sialic residues in oligosaccharides, glycoproteins, glycolipids, colominic acid and synthetic substrates.				
CC	-!- SUBUNIT: Homotetramer.				
CC	-!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped spike on the surface of the virion.				
CC	-!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.				
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CC	EMBL; L06573; AAA43367.1; -.				
CC	DR HSSP; P06820; 2BAT.				
CC	DR InterPro; IPR001860; Glyco_hydro_34.				
CC	DR Pfam; PF00064; neur; 1.				
CC	DR ProDom; PD000431; Glyco_hydro_34; 1.				
KW	KW Hydrolase; Glycosidase; Glycoprotein; Transmembrane.				
FT	FT TRANSMEM 7 38 ANCHOR (BY SIMILARITY).				
FT	FT DOMAIN 39 88 HYPERVARIABLE STALK REGION.				
FT	FT DOMAIN 89 470 HEAD OF NEURAMINIDASE.				
FT	FT ACT_SITE 273 273 BY SIMILARITY.				
FT	FT ACT_SITE 275 275 BY SIMILARITY.				
FT	FT CARBOHYD 46 46 N-LINKED (GLCNAC. .) (POTENTIAL).				
FT	FT CARBOHYD 54 54 N-LINKED (GLCNAC. .) (POTENTIAL).				
FT	FT CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).				
FT	FT CARBOHYD 144 144 N-LINKED (GLCNAC. .) (POTENTIAL).				
FT	FT CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).				
FT	FT CARBOHYD 398 398 N-LINKED (GLCNAC. .) (POTENTIAL).				
SQ	SQ SEQUENCE 470 AA; 52015 MW; E1C1D3E2C650B93C CRC64;				
Query Match	83.3%;	Score 5;	DB 1;	Length 470;	
Best Local Similarity	100.0%;	Pred. No. 11;	0; Indels	0; Gaps 0;	
Matches	5; Conservative	0; Mismatches			
Qy	1 ADWSW 5				
Db	453 ADWSW 457				

RESULT 5		RESULT 6	
Db	453 ADWSW 457	Db	453 ADWSW 457
RESULT 4	NRAM_IADM2 ID_NRAM_IADM2 STANDARD; PRT; 470 AA.	RESULT 6	NRAM_IAGFN ID_NRAM_IAGFN STANDARD; PRT; 470 AA.
AC Q07573; AC Q07599;	AC Q07599;	AC Q07574;	AC Q07574;
DT 01-FEB-1995 (Rel. 31, Created)	DT 01-OCT-1994 (Rel. 30, Created)	DT 01-FEB-1995 (Rel. 30, Last sequence update)	DT 01-FEB-1995 (Rel. 31, Created)
DT 01-FEB-1995 (Rel. 31, Last sequence update)	DT 01-OCT-1994 (Rel. 30, Last sequence update)	DT 28-FEB-2003 (Rel. 41, Last annotation update)	DT 28-FEB-2003 (Rel. 31, Last annotation update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)			
DE Neuraminidase (EC 3.2.1.18).			
GN NA.			
OS Influenza A virus (strain A/Duck/Ukraine/1/63).			
OC Viruses; ssRNA negative-strand viruses; Orthomyxoviridae;			
OC Influenza A viruses; Orthomyxoviridae;			
OX NCBI_TAXID=11367;			
RN [1]			
RP SEQUENCE FROM N.A.			
RX MEDLINE=93212520; PubMed=8460490;	RX MEDLINE=93212520; PubMed=8460490;	RX MEDLINE=93212520; PubMed=8460490;	RX MEDLINE=93212520; PubMed=8460490;
RA Saito T., Kawaoka Y.; Webster R.G.;			
RT "Phylogenetic analysis of the N8 neuraminidase gene of influenza A viruses.";	RT "Phylogenetic analysis of the N8 neuraminidase gene of influenza A viruses.";	RT "Phylogenetic analysis of the N8 neuraminidase gene of influenza A viruses.";	RT "Phylogenetic analysis of the N8 neuraminidase gene of influenza A viruses.";
RL Virology 193:868-876(1993).	RL Virology 193:868-876(1993).	RL Virology 193:868-876(1993).	RL Virology 193:868-876(1993).
CC -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side chains of the host cell surface proteins and from the viral envelope. Such a reaction prevents self-aggregation and facilitate the mobility of the virus to and from the site of infection.	CC -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side chains of the host cell surface proteins and from the viral envelope. Such a reaction prevents self-aggregation and facilitate the mobility of the virus to and from the site of infection.	CC -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side chains of the host cell surface proteins and from the viral envelope. Such a reaction prevents self-aggregation and facilitate the mobility of the virus to and from the site of infection.	CC -!- FUNCTION: Removes the terminal sialic acid from carbohydrate side chains of the host cell surface proteins and from the viral envelope. Such a reaction prevents self-aggregation and facilitate the mobility of the virus to and from the site of infection.
CC -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-, alpha-(2->8)-glycosidic linkages of terminal sialic residues in oligosaccharides, glycoproteins, glycolipids, glycosidic linkages of terminal sialic residues in oligosaccharides, glycoproteins, glycolipids, colominic acid and synthetic substrates.	CC -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-, alpha-(2->8)-glycosidic linkages of terminal sialic residues in oligosaccharides, glycoproteins, glycolipids, colominic acid and synthetic substrates.	CC -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-, alpha-(2->8)-glycosidic linkages of terminal sialic residues in oligosaccharides, glycoproteins, glycolipids, colominic acid and synthetic substrates.	CC -!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->3)-, alpha-(2->6)-, alpha-(2->8)-glycosidic linkages of terminal sialic residues in oligosaccharides, glycoproteins, glycolipids, colominic acid and synthetic substrates.
CC -!- SUBUNIT: Homotetramer.	CC -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped spike on the surface of the virion.	CC -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped spike on the surface of the virion.	CC -!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped spike on the surface of the virion.
CC -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.	CC -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.	CC -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.	CC -!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.
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CC DR EMBL; L06576; AAA16234.1; -.			
CC DR HSSP; P06820; 2BAT.			
CC DR InterPro; IPR001860; Glyco_hydro_34.			
CC DR Pfam; PF00064; neur; 1.			
CC DR ProDom; PD000431; Glyco_hydro_34; 1.			
CC KW Hydrolase; Glycosidase; Glycoprotein; Transmembrane.			
FT TRANSMEM 7 38 ANCHOR (BY SIMILARITY)	FT TRANSMEM 7 37 ANCHOR (BY SIMILARITY).	FT TRANSMEM 7 37 ANCHOR (BY SIMILARITY).	FT TRANSMEM 7 37 ANCHOR (BY SIMILARITY).
FT DOMAIN 39 88 HYPERVARIABLE STALK REGION.	FT DOMAIN 38 88 HYPERVARIABLE STALK REGION.	FT DOMAIN 38 88 HYPERVARIABLE STALK REGION.	FT DOMAIN 38 88 HYPERVARIABLE STALK REGION.
FT DOMAIN 89 470 HEAD OF NEURAMINIDASE.			
FT ACT_SITE 273 273 BY SIMILARITY.			
FT TRANSMEM 7 38 BY SIMILARITY.			
FT DOMAIN 39 46 N-LINKED (GLCNAC. .) (POTENTIAL).	FT DOMAIN 39 46 N-LINKED (GLCNAC. .) (POTENTIAL).	FT DOMAIN 39 46 N-LINKED (GLCNAC. .) (POTENTIAL).	FT DOMAIN 39 46 N-LINKED (GLCNAC. .) (POTENTIAL).
FT DOMAIN 89 54 N-LINKED (GLCNAC. .) (POTENTIAL).	FT DOMAIN 89 54 N-LINKED (GLCNAC. .) (POTENTIAL).	FT DOMAIN 89 54 N-LINKED (GLCNAC. .) (POTENTIAL).	FT DOMAIN 89 54 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 46 46 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 46 46 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 46 46 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 46 46 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 54 54 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 54 54 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 54 54 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 54 54 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 84 84 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 144 144 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 144 144 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 144 144 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 144 144 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).
FT CARBOHYD 398 398 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 398 398 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 398 398 N-LINKED (GLCNAC. .) (POTENTIAL).	FT CARBOHYD 398 398 N-LINKED (GLCNAC. .) (POTENTIAL).
SQ SEQUENCE 470 AA; 52146 MW; 30F5F9FE364C1F49 CRC64;	SQ SEQUENCE 470 AA; 51960 MW; B46D54A03AC84CCE CRC64;	SQ SEQUENCE 470 AA; 51960 MW; B46D54A03AC84CCE CRC64;	SQ SEQUENCE 470 AA; 51960 MW; B46D54A03AC84CCE CRC64;
Query Match 83.3%; Score 5; DB 1; Length 470;	Query Match 83.3%; Score 5; DB 1; Length 470;	Query Match 83.3%; Score 5; DB 1; Length 470;	Query Match 83.3%; Score 5; DB 1; Length 470;
Best Local Similarity 100.0%; Pred. No. 11; Mismatches 0; Indels 0; Gaps 0;	Best Local Similarity 100.0%; Pred. No. 11; Mismatches 0; Indels 0; Gaps 0;	Best Local Similarity 100.0%; Pred. No. 11; Mismatches 0; Indels 0; Gaps 0;	Best Local Similarity 100.0%; Pred. No. 11; Mismatches 0; Indels 0; Gaps 0;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ADWSW 5			
Db 453 ADWSW 457			

chains of the host cell surface proteins and from the viral envelope. Such a reaction prevents self-aggregation and facilitate the mobility of the virus to and from the site of infection.

-!- CATALYTIC ACTIVITY: Hydrolysis of alpha-(2->6)-, alpha-(2->8)-glycosidic linkages of terminal sialic residues in oligosaccharides, glycoproteins, glycolipids, colominic acid and synthetic substrates.

-!- SUBUNIT: Homotetramer.

-!- SUBCELLULAR LOCATION: Viral membrane. Forms a mushroom-shaped spike on the surface of the virion.

-!- SIMILARITY: Belongs to family 34 of glycosyl hydrolases.

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DR EMBL; L06588; AAA43410.1; -.

DR HSSP; P06820; 2BAT.

DR InterPro; IPR001860; Glyco_hydro_34.

DR Pfam; PF00064; neur; 1.

DR Prodrom; PD000431; Glyco_hydro_34; 1.

KW Hydrolase; Glycosidase; Glycoprotein; Transmembrane.

FT TRANSMEM 7 38 ANCHOR (BY SIMILARITY).

FT DOMAIN 39 88 HYPERVARIABLE STALK REGION.

FT DOMAIN 89 470 HEAD OF NEURAMINIDASE.

FT ACT_SITE 273 273 BY SIMILARITY.

FT ACT_SITE 275 275 BY SIMILARITY.

FT CARBOHYD 46 46 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 54 54 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 84 84 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 144 144 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 293 293 N-LINKED (GLCNAC. . .) (POTENTIAL).

FT CARBOHYD 398 398 N-LINKED (GLCNAC. . .) (POTENTIAL).

SQ SEQUENCE 470 AA; 52352 MW; DE573742ABFF1E6B CRC64;

Query Match 83.3%; Score 5; DB 1; Length 598; Best Local Similarity 100.0%; Pred. No. 14; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DWSWA 6

Db 113 DWSWA 117

RESULT 11

MRJ5_APIME ID MRJ5_APIME STANDARD; PRT; 598 AA.

AC O97432; MEDLINE=99373663; PubMed=10441680; SEQUENCE FROM N.A.

DT 28-FEB-2003 (Rel. 41, Created) TISSUE=Head;

DT 28-FEB-2003 (Rel. 41, Last sequence update) MEDLINE=99373663; PubMed=10441680;

DT 10-OCT-2003 (Rel. 42, Last annotation update) Albert S., Bhattacharya D., Klaudiny J., Schmitzova J., Simuth J.;

DE Major royal jelly protein 5 precursor (MRJP-5) (Bee-milk protein). "The family of major royal jelly proteins and its evolution.";

GN MRJP5. J. Mol. Evol. 49:290-297 (1999).

OS Apis mellifera (Honeybee). -!- FUNCTION: MAY PLAY AN IMPORTANT ROLE IN HONEYBEE NUTRITION. IT IS FOUND IN THE ROYAL JELLY WHICH IS THE FOOD OF THE QUEEN HONEY BEE

OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota; Neoptera; Endopterygota; Hymenoptera; Apocrita; Aculeata; Apoidea; Apidae; Apis.

OX NCBI_TaxID=7460; RN [1]

RP SEQUENCE FROM N.A.

RC TISSUE=Head;

RX Albert S., Bhattacharya D., Klaudiny J., Schmitzova J., Simuth J.;

RT "The family of major royal jelly proteins and its evolution.";

RL J. Mol. Evol. 49:290-297 (1999).

-!- FUNCTION: MAY PLAY AN IMPORTANT ROLE IN HONEYBEE NUTRITION. IT IS FOUND IN THE ROYAL JELLY WHICH IS THE FOOD OF THE QUEEN HONEY BEE LARVA. THE ROYAL JELLY DETERMINES THE DEVELOPMENT OF THE YOUNG LARVAE AND IS RESPONSIBLE FOR THE HIGH REPRODUCTIVE ABILITY OF THE LARVAE.

CC HONEYBEE QUEEN.

CC -!- SUBCELLULAR LOCATION: Secreted.

CC -!- TISSUE SPECIFICITY: Hypopharyngeal glands of nurse honey bees.

CC -!- DEVELOPMENTAL STAGE: Produced by the cephalic glandular system of the nurse honey bee.

CC -!- SIMILARITY: Belongs to the major royal jelly protein family.

CC This SWISS-PROT entry is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@isb-sib.ch).

CC DR EMBL; AF004842; ADD01205.1; InterPro; IPR003534; Royaljelly.

CC DR PFam; PF03022; MRJP; 2.

CC DR PRINTS; PR01366; ROYALJELLY.

CC KW Signal; Repeat; Glycoprotein.

CC FT SIGNAL 1 17 POTENTIAL.

CC FT CHAIN 18 598 MAJOR ROYAL JELLY PROTEIN 5.

CC FT CARBOHYD 148 148 N-LINKED (GLCNAC. . .) (POTENTIAL).

CC FT CARBOHYD 164 164 N-LINKED (GLCNAC. . .) (POTENTIAL).

CC FT CARBOHYD 181 181 N-LINKED (GLCNAC. . .) (POTENTIAL).

CC FT CARBOHYD 324 324 N-LINKED (GLCNAC. . .) (POTENTIAL).

CC SQ SEQUENCE 598 AA; 70236 MW; 2C603C77E7ACDF63 CRC64;

Query Match 83.3%; Score 5; DB 1; Length 598; Best Local Similarity 100.0%; Pred. No. 14; Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DWSWA 6

Db 113 DWSWA 117

RESULT 12

LCCB_LEUME ID LCCB_LEUME STANDARD; PRT; 31 AA.

AC P81052; MEDLINE=98274743; PubMed=9611809;

AC P81052; RA Papathanasopoulos M.A., Delys G.A., Revol-Junelles A.-M., Delfour A., von Holy A., Hastings J.W., RT "Sequence and structural relationships of leucocins A-, B- and C-TA33a from Leuconostoc mesenteroides TA33a.";

AC P81052; RT Microbiology 144:1343-1348 (1998).

AC P81052; RL Microbiology 144:1343-1348 (1998).

AC P81052; CC -!- FUNCTION: Inhibits a wide spectrum of lactic acid bacteria.

AC P81052; CC -!- SUBCELLULAR LOCATION: Secreted.

AC P81052; KW Bacteriocin; Antibiotic.

AC P81052; OS Leuconostoc mesenteroides.

AC P81052; OC Bacteria; Firmicutes; Lactobacillales; Leuconostoc.

AC P81052; OC NCBI_TaxID=1245;

AC P81052; RN SEQUENCE.

AC P81052; RX STRAIN=TA33a;

AC P81052; RX MEDLINE=98274743; PubMed=9611809;

AC P81052; RA Papathanasopoulos M.A., Delys G.A., Revol-Junelles A.-M., Delfour A., von Holy A., Hastings J.W., RT "Sequence and structural relationships of leucocins A-, B- and C-TA33a from Leuconostoc mesenteroides TA33a.";

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AC P81052; RX MEDLINE=98274743; PubMed=9611809;

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AC P81052; RX MEDLINE=98274743; PubMed=9611809;

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AC P81052; OC NCBI_TaxID=1245;

AC P81052; RN SEQUENCE.

AC P81052; RX STRAIN=TA33a;

AC P81052; RX MEDLINE=98274743; PubMed=9611809;

AC P81052; RA Papathanasopoulos M.A., Delys G.A., Revol-Junelles A.-M., Delfour A., von Holy A., Hastings J.W., RT "Sequence and structural relationships of leucocins A-, B- and C-TA33a from Leuconostoc mesenteroides TA33a.";

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AC P81052; RL Microbiology 144:1343-1348 (1998).

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AC P81052; OC Leuconostoc mesenteroides.

AC P81052; OC NCBI_TaxID=1245;

AC P81052; RN SEQUENCE.

AC P81052; RX STRAIN=TA33a;

AC P81052; RX MEDLINE=98274743; PubMed=9611809;

AC P81052; RA Papathanasopoulos M.A., Delys G.A., Revol-Junelles A.-M., Delfour A., von Holy A., Hastings J.W., RT "Sequence and structural relationships of leucocins A-, B- and C-TA33a from Leuconostoc mesenteroides TA33a.";

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AC P81052; OC Leuconostoc mesenteroides.

AC P81052; OC NCBI_TaxID=1245;

AC P81052; RN SEQUENCE.

AC P81052; RX STRAIN=TA33a;

AC P81052; RX MEDLINE=98274743; PubMed=9611809;

AC P81052; RA Papathanasopoulos M.A., Delys G.A., Revol-Junelles A.-M., Delfour A., von Holy A., Hastings J.W., RT "Sequence and structural relationships of leucocins A-, B- and C-TA33a from Leuconostoc mesenteroides TA33a.";

AC P81052; RT Microbiology 144:1343-1348 (1998).

AC P81052; RL Microbiology 144:1343-1348 (1998).

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AC P81052; CC -!- SUBCELLULAR LOCATION: Secreted.

AC P81052; KW Bacteriocin; Antibiotic.

AC P81052; OS Leuconostoc mesenteroides.

AC P81052; OC Leuconostoc mesenteroides.

AC P81052; OC NCBI_TaxID=1245;

AC P81052; RN SEQUENCE.

AC P81052; RX STRAIN=TA33a;

AC P81052; RX MEDLINE=98274743; PubMed=9611809;

AC P81052; RA Papathanasopoulos M.A., Delys G.A., Revol-Junelles A.-M., Delfour A., von Holy A., Hastings J.W., RT "Sequence and structural relationships of leucocins A-, B- and C-TA33a from Leuconostoc mesenteroides TA33a.";

AC P81052; RT Microbiology 144:1343-1348 (1998).

AC P81052; RL Microbiology 144:1343-1348 (1998).

AC P81052; CC -

CC -!- TISSUE SPECIFICITY: Expressed by the venom gland.
 CC -!- MASS SPECTROMETRY: MW=4037.9; METHOD=MALDI.
 CC -!- SIMILARITY: Belongs to the mu-agatoxin family.
 DR PIR: A59401.
 DR GO; GO:0005576; C:extracellular; NAS.
 DR GO; GO:0019871; F:sodium channel inhibitor activity; IDA.
 DR GO; GO:0015070; F:toxin activity; IDA.
 KW Toxin; Neurotoxin; Ionic channel inhibitor; Amidation;
 KW Sodium channel inhibitor.
 PT DISULFID 2 18
 PT DISULFID 9 23
 PT DISULFID 17 33
 PT DISULFID 25 31
 PT MOD RES 37 37 AMIDATION.
 SQ SEQUENCE 37 AA; 4046 MW; E019DABCC25BC11E CRC64;

Query Match 66.7%; Score 4; DB 1; Length 37;
 Best Local Similarity 100.0%; Pred. No. 27;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWS 4
 Db 10 ADWS 13

RESULT 15
 ACYP MYCTU STANDARD; PRT; 93 AA.
 ID ACYP MYCTU STANDARD; PRT; 93 AA.
 AC P56543;
 AC 15-JUL-1998 (Rel. 36, Created)
 DT 15-JUL-1998 (Rel. 36, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DT Putative acylphosphatase (EC 3.6.1.7) (Acylphosphate
 DE phosphohydrolase).
 DE ACYP OR RV2922.1C OR MT2991 OR MTCY338.11BC OR MB2947C.
 OS Mycobacterium tuberculosis, and
 OS Mycobacterium bovis.
 OS Bacteria; Actinobacteria; Actinomycetales;
 OC Corynebacterineae; Mycobacteriaceae; Mycobacterium.
 OC NCBI_TaxID=1773, 1765;
 RN [1] - SEQUENCE FROM N.A.
 RC SPECIES=M.tuberculosis; STRAIN=H37Rv;
 RX MEDLINE=98295987; PubMed=9634230;
 RA Cole S.T., Brosch R., Parkhill J., Garnier T., Churcher C., Harris D.,
 RA Gordon S.V., Eiglmeier K., Gas S., Barry C.E. III, Tekia F.,
 RA Badcock K., Basham D., Brown D., Chillingworth T., Connor R.,
 RA Davies R., Devlin K., Feltwell T., Gentles S., Hamlin N., Holroyd S.,
 RA Hornsby T., Jagels K., Krogh A., McLean J., Moule S., Murphy L.,
 RA Oliver S., Osborne J., Quail M.A., Rajandream M.A., Rogers J.,
 RA Rutter S., Seeger K., Skelton S., Squares S., Squares R.,
 RA Sulston J.E., Taylor K., Whitehead S., Barrell B.G.;
 RT "Deciphering the biology of Mycobacterium tuberculosis from the
 RT complete genome sequence.";
 RL Nature 393:537-544 (1998).
 RN [2] - SEQUENCE FROM N.A.
 RC SPECIES=M.tuberculosis; STRAIN=CDC 1551 / Oshkosh;
 RX MEDLINE=22206494; PubMed=12218036;
 RA Fleischmann R.D., Alland D., Eisen J.A., Carpenter L., White O.,
 RA Peterson J., DeBoy R., Dodson R., Gwinn M., Haft D., Hickey E.,
 RA Kolonay J.F., Nelson W.C., Umayam L.A., Ermolaeva M., Salzberg S.L.,
 RA Delcher A., Utterback T., Weidman J., Khouri H., Gill J., Mikula A.,
 RA Bishai W., Jacobs W.R. Jr., Venter J.C., Fraser C.M.;
 RT "Whole-genome comparison of Mycobacterium tuberculosis clinical and
 RT laboratory strains";
 RL J. Bacteriol. 184:5479-5490 (2002).
 RN [3] - SEQUENCE FROM N.A.
 RC SPECIES=M.bovis; STRAIN=AF2122/97;
 RX MEDLINE=22709107; PubMed=12788972;
 RA Garnier T., Eiglmeier K., Camus J.-C., Medina N., Mansoor H.,
 RA Pryor M., Dutchoy S., Grondin S., Lacroix C., Monsempe C., Simon S.,

CC -!- TISSUE SPECIFICITY: Expressed by the venom gland.
 CC -!- MASS SPECTROMETRY: MW=3926.2; METHOD=MALDI.
 CC -!- SIMILARITY: Belongs to the mu-agatoxin family.
 DR GO; GO:0005576; C:extracellular; NAS.
 DR GO; GO:0019871; F:sodium channel inhibitor activity; IDA.
 DR GO; GO:0015070; F:toxin activity; IDA.
 KW Toxin; Neurotoxin; Ionic channel inhibitor; Sodium channel inhibitor.
 PT DISULFID 3 19 BY SIMILARITY.
 PT DISULFID 10 24 BY SIMILARITY.
 PT DISULFID 18 34 BY SIMILARITY.
 PT DISULFID 26 32 BY SIMILARITY.
 SQ SEQUENCE 36 AA; 3934 MW; 9QDFDAD043A19804 CRC64;

Query Match 66.7%; Score 4; DB 1; Length 36;
 Best Local Similarity 100.0%; Pred. No. 26;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWS 4
 Db 11 ADWS 14

RESULT 14
 TXD1_PARLU STANDARD; PRT; 37 AA.
 ID TXD1_PARLU STANDARD; PRT; 37 AA.
 AC P83256;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 28-FEB-2003 (Rel. 41, Last annotation update)
 DE Delta-palutoxin IT1 (Delta-palutri1).
 OS Paracoelotes luctuosus (Spider).
 OC Eukaryota; Metazoa; Arthropoda; Chelicera; Arachnida; Araneae;
 OC Araneomorphae; Entelegynae; Amaurobiidae; Paracoelotes.
 OX NCBI_TaxID=185217;

RN [1] - SEQUENCE, SYNTHESIS, FUNCTION, DISULFIDE BONDS, AND MASS SPECTROMETRY.
 RP TISSUE=Venom;
 RX MEDLINE=20428467; PubMed=10971590;
 RA Corzo G., Escoubas P., Stankiewicz M., Pelhate M., Kristensen C.P.,
 RA Nakajima T.;
 RT "Isolation, synthesis and pharmacological characterization of
 RT delta-palutoxins IT, novel insecticidal toxins from the spider
 RT Paracoelotes luctuosus (Amaurobiidae).";
 RL Eur. J. Biochem. 267:5783-5795 (2000).
 CC -!- FUNCTION: Potent activity against S.litura larvae.
 CC -!- FUNCTION: Binds to sodium channels and inhibits the inactivation
 CC of the activated channels. This toxin is active only on insects.
 CC -!- SUBCELLULAR LOCATION: Secreted.

RA Harris B., Atkin R., Doggett J., Mayes R., Keating L., Wheeler P.R.,
 RA Parkhill J., Barrell B.G., Cole S.T., Gordon S.V., Hewinson R.G.;
 RT "The complete genome sequence of *Mycobacterium bovis*."
 RL Proc. Natl. Acad. Sci. U.S.A. 100:7877-7882 (2003).
 RN [4]

RP IDENTIFICATION.

RC *Mycobacterium tuberculosis*;

RA Bairoch A.;

RI Submitted (MAY-1998) to the EMBL/GenBank/DDBJ databases.

CC -!- CATALYTIC ACTIVITY: An acyl phosphate + H(2)O = a fatty acid anion

CC + phosphate.

CC -!- SIMILARITY: Belongs to the acylphosphatase family.

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 CC use by non-profit institutions as long as its content is in no way
 CC modified and this statement is not removed. Usage by and for commercial
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 CC or send an email to license@isb-sib.ch).

DR Z74697; -; NOT ANNOTATED_CDS.

DR EMBL; AE007121; AAK47318.1; -.

DR EMBL; BX248344; CAD96634.1; -.

DR MT2991; -.

DR TuberculList; Rv2922.1C; -.

DR InterPro; IPR001792; Acylphosphatase.

DR Pfam; PF00708; Acylphosphatase; 1.

DR ProDom; PD001884; ACYLPHOSPHATASE; 1.

DR PROSITE; PS00150; ACYLPHOSPHATASE_1; 1.

DR PROSITE; PS00151; ACYLPHOSPHATASE_2; 1.

KW Hypothetical protein; Hydrolase; Complete proteome.

SQ SEQUENCE 93 AA; 10206 MW; 63A90ED2D780DDEB CRC64;

Query Match 66.7%; Score 4; DB 1; Length 93;
 Best Local Similarity 100.0%; Pred. No. 56;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	ADWS	4
Db	78	ADWS	81

Search completed: April 27, 2004, 08:58:56
 Job time : 12 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: April 27, 2004, 08:56:03 ; Search time 21 Seconds
 (without alignments)

27.483 Million cell updates/sec

US-09-847-940C-6

6 ADWISWA 6

Scoring table: OLIGO
 Gapop 60.0 , Gapext 60.0

Searched: 283366 seqs, 96191526 residues

Word size : 0

Total number of hits satisfying chosen parameters:

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : PIR_78:*

1: PIR1:*

2: PIR2:*

3: PIR3:*

4: PIR4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query No.	Score	Match	Length	DB ID	Description
1	5	83.3	374	2	B83241	conserved hypothetical protein B-dependent receptor
2	5	83.3	889	2	E87304	gap junction protein delta-paluri - Pa hypothetical protein
3	4	66.7	32	2	A24047	hypothetical protein lectin homolog 2 - probable xylanase
4	4	66.7	37	2	A59401	type IV prepilin protein
5	4	66.7	57	2	AG2302	hypothetical protein probable terminase unknown protein in Ig V-D-J region (M hypothetical protein
6	4	66.7	88	2	H95051	hypothetical protein conserved hypothetical protein mel-13a protein - bfpG protein - ESC hypothetical protein
7	4	66.7	88	2	D97922	conserved hypothetical protein
8	4	66.7	94	2	T10250	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
9	4	66.7	95	2	T36897	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
10	4	66.7	97	2	E53374	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
11	4	66.7	98	2	D53374	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
12	4	66.7	100	2	H81042	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
13	4	66.7	115	2	T31781	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
14	4	66.7	118	2	E90828	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
15	4	66.7	118	2	B85686	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
16	4	66.7	122	2	S69909	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
17	4	66.7	129	1	E69973	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
18	4	66.7	129	2	F69902	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
19	4	66.7	132	2	S67785	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
20	4	66.7	133	2	S70967	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
21	4	66.7	133	2	F84190	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
22	4	66.7	134	2	AG2926	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
23	4	66.7	134	2	H98355	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
24	4	66.7	135	2	B83440	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
25	4	66.7	137	2	G84174	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
26	4	66.7	139	2	S54229	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
27	4	66.7	140	2	A33155	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
28	4	66.7	143	2	T16896	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29
29	4	66.7	147	2	S30974	hypothetical protein Ig mu heavy chain pathogenesis-related protein 29

RESULT 1
 B83241
 Conserved hypothetical protein PA3230 [imported] - *Pseudomonas aeruginosa* (strain PA01)
 C;Species: *Pseudomonas aeruginosa*
 C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 31-Dec-2000
 C;Accession: B83241
 R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, M.J.; Brzadl, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, K.; Lim, J.; Lory, S.; Olson, M.V.
 Nature 406, 959-964, 2000
 A;Title: Complete genome sequence of *Pseudomonas aeruginosa* PA01, an opportunistic pathogen
 A;Reference number: A82950; PMID:20437337; PMID:10984043
 A;Accession: B83241
 A;Status: Preliminary
 A;Molecule type: DNA
 A;Residues: 1-374 <STO>
 A;Cross-references: GB:AE004746; GB:AE004091; NID:9949350; PIDN:AG06618.1; GSPDB:GN0011
 A;Experimental source: strain PA01
 C;Genetics:
 A;Gene: PA3230

RESULT 2
 B87304
 TonB-dependent receptor [imported] - *Caulobacter crescentus*
 C;Species: *Caulobacter crescentus*
 C;Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_change 20-Apr-2001
 C;Accession: E87304
 R;Nierman, W.C.; Feldblyum, T.V.; Paulsen, I.T.; Nelson, K.E.; Eisen, J.; Heidelberg, J.F.; Laub, M.T.; DeBoy, R.T.; Dodson, R.J.; Durkin, A.S.; Gwinn, M.L.; Haft, D.H.; Kolonay, J.; Ermolaeva, M.; White, O.; Salzberg, S.L.; Shapiro, R.; Venter, J.C.; Fraser, C.M.; Proc. Natl. Acad. Sci. U.S.A. 98, 4136-4141, 2001
 A;Title: Complete Genome Sequence of *Caulobacter crescentus*
 A;Reference number: A87249; PMID:21173698; PMID:11259647
 A;Accession: E87304
 A;Status: Preliminary
 A;Molecule type: DNA
 A;Residues: 1-889 <STO>
 A;Cross-references: GB:AE005673; NID:913421615; PIDN:AAK22433.1; GSPDB:GN00148
 A;Experimental source: strain PA01
 C;Genetics:
 A;Gene: CC0446

Query Match No. 83.3%; Score 5; DB 2; Length 374;
 Best Local Similarity 100.0%; Pred. No. 19;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DWSWA 6
 Db 81 DWSWA 85

Query Match No. 83.3%; Score 5; DB 2; Length 374;
 Best Local Similarity 100.0%; Pred. No. 19;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DWSWA 6
 Db 81 DWSWA 85

Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0; A;Reference number: AB1807; MUID:21595285; PMID:11759840
 A;Accession: AG2302
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-57 <KUR>
 A;Cross-references: GB:BA000019; PIDN:BAB75673.1; PID:917133108; GSPDB:GN00179
 A;Experimental source: strain PCC 7120
 C;Genetics:
 A;Gene: asl3974

RESULT 3
 A24047
 gap junction protein, cardiac - rat (fragment)
 C;Species: *Rattus norvegicus* (Norway rat)
 C;Date: 25-Oct-1987 #sequence_revision 25-Oct-1987 #text_change 16-Jul-1999
 C;Accession: A24047
 R;Nicholson, B.J.; Gros, D.B.; Kent, S.B.H.; Hood, L.E.; Revel, J.P.
 J. Biol. Chem. 260, 6514-6517, 1985
 A;Title: The Mr 28,000 gap junction proteins from rat heart and liver are different but
 A;Reference number: A92530; MUID:85207650; PMID:2987225
 A;Accession: A24047
 A;Molecule type: protein
 A;Residues: 1-32 <NIC>
 C;Superfamily: gap junction protein
 C;Keywords: cardiac muscle; heart; transmembrane protein
 C;Genetics:
 A;Gene: sp0448

Query Match 66.7%; Score 4; DB 2; Length 57;
 Best Local Similarity 100.0%; Pred. No. 72;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 ADWS 4
 Db 41 ADWS 44

RESULT 4
 A59401
 delta-paluit1 - *Paracoelotes luctuosus*
 C;Species: *Paracoelotes luctuosus*
 C;Date: 31-Dec-2001 #sequence_revision 31-Dec-2001 #text_change 17-May-2002
 C;Accession: A59401
 R;Corzo, G.
 Eur. J. Biochem. 267, 5783-5795, 2000
 A;Title: Isolation, synthesis and pharmacological characterization of delta-palutoxins I
 A;Reference number: A59401
 A;Accession: A59401
 A;Status: preliminary
 A;Molecule type: protein
 A;Residues: 1-37 <COR>
 A;Note: insect-specific sodium channel neurotoxin
 C;Superfamily: curtatoxin
 F;2-18/Disulfide bonds: #status experimental
 F;9-23/Disulfide bonds: #status experimental
 F;17-33/Disulfide bonds: #status experimental
 F;25-31/Disulfide bonds: #status experimental

Query Match 66.7%; Score 4; DB 2; Length 37;
 Best Local Similarity 100.0%; Pred. No. 50;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 ADWS 4
 Db 10 ADWS 13

RESULT 5
 AG2302
 hypothetical protein asl3974 [imported] - *Nostoc* sp. (strain PCC 7120)
 C;Species: *Nostoc* sp. PCC 7120
 A;Note: *Nostoc* sp. strain PCC 7120 is a synonym of *Anabaena* sp. strain PCC 7120
 C;Accession: AG2302
 R;Kaneko, T.; Nakamura, Y.; Wolk, C.P.; Kuritz, T.; Sasamoto, S.; Watanabe, A.; Iriuchi, S.; Nakazaki, N.; Shimpoo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Tabata, S.; DNA Res. 8, 205-213, 2001
 A;Title: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium *Anabaena*

Query Match 66.7%; Score 4; DB 2; Length 88;
 Best Local Similarity 100.0%; Pred. No. 1e+02;
 C;Genetics:
 A;Gene: spr0404

RESULT 6
 H95051
 hypothetical protein SP0448 [imported] - *Streptococcus pneumoniae* (strain TIGR4)
 C;Species: *Streptococcus pneumoniae*
 C;Date: 03-Aug-2001 #sequence_revision 03-Aug-2001 #text_change 03-Aug-2001
 C;Accession: H95051
 R;Tettelin, H.; Nelson, K.E.; Paulsen, I.T.; Eisen, J.A.; Read, T.D.; Peterson, S.; Heidorn, J.D.; Umayam, L.A.; White, O.; Salzberg, S.L.; Lewis, M.R.; Radune, D.; Holtzapple, E.; Olson, T.; Hickey, E.K.; Holt, I.E.
 Science 293, 498-506, 2001
 A;Authors: Loftus, B.J.; Yang, F.; Smith, H.O.; Venter, J.C.; Dougherty, B.A.; Morrison, A;Title: Complete Genome Sequence of a virulent isolate of *Streptococcus pneumoniae*.
 A;Reference number: A95000; MUID:21357209; PMID:11463916
 A;Accession: H95051
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-88 <KUR>
 A;Cross-references: GB:AE005672; PIDN:AAK74609.1; PID:gi14971918; GSPDB:GN00164; TIGR:SP448
 A;Experimental source: strain TIGR4
 C;Genetics:
 A;Gene: SP0448

Query Match 66.7%; Score 4; DB 2; Length 88;
 Best Local Similarity 100.0%; Pred. No. 1e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 ADWS 4
 Db 18 ADWS 21

RESULT 7
 D97922
 hypothetical protein spr0404 [imported] - *Streptococcus pneumoniae* (strain R6)
 C;Species: *Streptococcus pneumoniae*
 C;Date: 22-Oct-2001 #sequence_revision 22-Oct-2001 #text_change 22-Oct-2001
 C;Accession: D97922
 R;Hoskins, J.A.; Alborn Jr., W.; Blaszczaik, L.; Burgett, S.; DeHoff, B.S.; Ede, R.; LeBlanc, D.J.; Lee, L.N.; Lefkowitz, E.J.; Lu, J.; Matsushima, P.; McAhren, S.; McY, P.; Sun, P.M.; Winkler, M.E.
 J. Bacteriol. 183, 5709-5717, 2001
 A;Authors: Yang, Y.; Young-Bellido, M.; Zhao, G.; Zook, C.; Baltz, R.H.; Jaskunas, S.R.; A;Title: Genome of the Bacterium *Streptococcus pneumoniae* Strain R6.
 A;Reference number: A97872; MUID:21429245; PMID:11544234
 A;Accession: D97922
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-88 <KUR>
 A;Cross-references: GB:AE007317; PIDN:AAK99208.1; PID:gi15457967; GSPDB:GN00174
 A;Experimental source: strain PCC 7120
 C;Genetics:
 A;Gene: spr0404

Query Match 66.7%; Score 4; DB 2; Length 88;
 Best Local Similarity 100.0%; Pred. No. 1e+02;

Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWS 4
Db 18 ADWS 21

RESULT 8

T10250 lectin homolog 2 - cucumber (fragment)
C;Species: Cucumis sativus (cucumber)
C;Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 21-Jul-2000
C;Accession: T10250
R;Toyama, T.; Teramoto, H.; Takeba, G.; Tsuji, H.
Plant Cell Physiol. 36, 1349-1359, 1995
A;Title: Cytokinin induces a rapid decrease in the levels of mRNAs for catalase, 3-hydroxy-
A;Reference number: Z16946; MUID:96104306; PMID:8564304
A;Accession: T10250
A;Status: translated from GB/EMBL/DBDJ
A;Molecule type: mRNA
A;Residues: 1-94 <TOY>
A;Cross-references: EMBL:D63388; NID:g1199482; PIDN:BAA09704.1; PMID:g1199483
A;Experimental source: seedling; cotyledon

Query Match 66.7%; Score 4; DB 2; Length 94;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 WSWA 6
Db 35 WSWA 38

RESULT 9

T36897 probable xylanase - Streptomyces coelicolor (fragment)
C;Species: Streptomyces coelicolor
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Dec-2002
C;Accession: T36897
R;Seeger, K.; Harris, D.; Bentley, S.D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.
submitted to the EMBL Data Library, July 1999
A;Reference number: Z21574
A;Accession: T36897
A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-95 <SEE>
A;Cross-references: EMBL:AL096743; PIDN:CAB46384.1; GSPDB:GN00070; SCOEDB:SCI7.01c
A;Experimental source: strain A3(2)
C;Genetics:

A;Gene: SCOEDB:SCI7.01c
C;Superfamily: Xylan 1,4-beta-xylosidase (EC 3.2.1.37)

Query Match 66.7%; Score 4; DB 2; Length 95;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWS 4
Db 18 ADWS 21

RESULT 10

E53374 type IV prepilin peptidase (EC 3.4.99.-) pilD - Neisseria subflava (strain NNP3260) (fra
N;Contains: type IV pilin N-methyltransferase (EC 2.1.1.-)
C;Species: Neisseria subflava
C;Date: 19-Mar-1997 #sequence_revision 19-Dec-1997 #text_change 29-Jan-1999
C;Accession: E53374
R;Dupuy, B.; Pugsley, A.P.
J. Bacteriol. 176, 1323-1331, 1994
A;Title: Type IV prepilin peptidase gene of Neisseria gonorrhoeae MS11: presence of a re
A;Reference number: A53374; MUID:94156836; PMID:7906688
A;Accession: E53374

A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-100 <PAR>
A;Cross-references: GB:AU162753; GB:AU157959; NID:g7379120; PID:CA83970.1; PMID:9737941

A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-100 <PAR>
A;Cross-references: GB:AU162753; GB:AU157959; NID:g7379120; PID:CA83970.1; PMID:9737941

RESULTS 11

D53374 type IV prepilin peptidase (EC 3.4.99.-) - Neisseria sicca (strain LNP3265) (fragment)
N;Contains: type IV pilin N-methyltransferase (EC 2.1.1.-)
C;Species: Neisseria sicca
C;Date: 23-Mar-1995 #sequence_revision 23-Mar-1995 #text_change 29-Jan-1999
C;Accession: D53374
R;Dupuy, B.; Pugsley, A.P.
J. Bacteriol. 176, 1323-1331, 1994
A;Title: Type IV prepilin peptidase gene of Neisseria gonorrhoeae MS11: presence of a re
A;Reference number: A53374; MUID:94156836; PMID:7906688
A;Accession: D53374
A;Status: preliminary; nucleic acid sequence not shown; not compared with conceptual tra
A;Molecule type: DNA
A;Residues: 1-98 <DUP>
C;Superfamily: type IV prepilin peptidase
C;Keywords: hydrolase; methyltransferase; S-adenosylmethionine

Query Match 66.7%; Score 4; DB 2; Length 98;
Best Local Similarity 100.0%; Pred. No. 1.1e+02;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 WSWA 6
Db 20 WSWA 23

RESULTS 12

H81042 hypothetical protein NMB1782 [imported] - Neisseria meningitidis (strain MC58) serogroup F
C;Species: Neisseria meningitidis
C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 02-Feb-2001
C;Accession: H81042; G81988
R;Tettelin, H.; Saunders, N.J.; Heidelberg, J.; Jeffries, A.C.; Nelson, K.E.; Eisen, J.A.;
Hickey, E.K.; Haft, D.H.; Salzberg, S.L.; White, O.; Fleischmann, R.D.; Dougherty, B.A.;
ri, H.; Qin, H.; Yamatehan, J.; Gill, J.; Scarlato, V.; Masignani, V.; Pizza, M.
Science 287, 1809-1815, 2000
A;Authors: Grandi, G.; Sun, L.; Smith, H.O.; Fraser, C.M.; Moxon, E.R.; Rappuoli, R.; Ver
A;Title: Complete genome sequence of Neisseria meningitidis serogroup B strain MC58.
A;Reference number: A81000; MUID:20175755; PMID:20175755
A;Accession: H81042
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-100 <TET>
A;Cross-references: GB:AE002528; GB:AE002098; NID:g7227034; PID:AAF42122.1; PID:g722703
A;Experimental source: serogroup B, strain MC58
R;Parkhill, J.; Achtman, M.; James, K.D.; Bentley, S.D.; Churcher, C.; Klee, S.R.; Morell, J.;
Holroyd, S.; Jagels, K.; Leather, S.; Mungall, K.; Quail, M.A.; Rajandream, N.; 404, 502-506, 2000
A;Title: Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z2491.
A;Reference number: A81775; MUID:20222556; PMID:10761919
A;Accession: G81988
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-100 <PAR>

A;Experimental source: serogroup A, strain Z2491
 C;Genetics:
 A;Gene: NMB1782; NMA0683; NMA0684
 C;Superfamily: *Neisseria meningitidis* hypothetical protein NMB1782

Query Match 66.7%; Score 4; DB 2; Length 100;
 Best Local Similarity 100.0%; Pred. No. 1.2e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;
 Qy 2 DWSW 5
 Db 77 DWSW 80

RESULT 15
 B85686
 unknown protein encoded by prophage CP-933C [imported] - *Escherichia coli* (strain O157:H82
 C;Species: *Escherichia coli*
 C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 14-Sep-2001
 C;Accession: B85686
 R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, D.J.; Mayhew
 iller, L.; Grotnbeck, B.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamoussis, K.; Apodaca,
 Nature 409, 529-533, 2001
 A;Title: Genome sequence of *enterohemorrhagic Escherichia coli* O157:H7.
 A;Reference number: A85480; MUID:21074935; PMID:21074935; PMID:11206551
 A;Accession: B85686
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-118 <STO>
 A;Cross-references: GB:AB005174; NID:912514775; PIDN:AAG55950.1; GSPDB:GN00145; UWGP:Z18
 A;Experimental source: strain O157:H7, substrain EDL933
 C;Genetics:
 A;Gene: Z1853

Query Match 66.7%; Score 4; DB 2; Length 118;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 ADWS 4
 Db 35 ADWS 38

Search completed: April 27, 2004, 08:59:31
 Job time: 23 secs

A;Gene: CESP:F13H6.2
 A;Map position: 5
 A;Introns: 52/1; 92/3
 C;Superfamily: *Caenorhabditis elegans* hypothetical protein F13H6.2

Query Match 66.7%; Score 4; DB 2; Length 115;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 ADWS 4
 Db 95 ADWS 98

RESULT 14
 E90828
 probable terminase small subunit [imported] - *Escherichia coli* (strain O157:H7, substrain
 C;Species: *Escherichia coli*
 C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 18-Jul-2001
 C;Accession: E90828
 R;Hayashi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Han, C.G.
 gasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H.
 DNA Res. 8, 11-22, 2001
 A;Title: Complete genome sequence of *enterohemorrhagic Escherichia coli* O157:H7 and genetic
 A;Reference number: A999629; MUID:21156231; PMID:11258796
 A;Accession: E90828
 A;Status: preliminary
 A;Molecule type: DNA
 A;Residues: 1-118 <HAY>
 A;Cross-references: GB:BA000007; PIDN:BAB35020.1; PID:913361061; GSPDB:GN00154
 A;Experimental source: strain O157:H7, substrain RIMD 0509952
 C;Genetics:
 A;Gene: ECS1597

Query Match 66.7%; Score 4; DB 2; Length 118;
 Best Local Similarity 100.0%; Pred. No. 1.3e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 ADWS 4
 Db 35 ADWS 38

RESULT 2
 US-09-847-946A-73
 ; Sequence '73, Application US/09847946A
 ; Publication No. US2003005499A1
 ; GENERAL INFORMATION:
 ; APPLICANT: May, Michael J
 ; APPLICANT: Ghosh, Sankar
 ; APPLICANT: Findeis, Mark A
 ; APPLICANT: Phillips, Kathryn
 ; APPLICANT: Hannig, Gerhard
 ; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
 ; FILE REFERENCE: PPI-119
 ; CURRENT APPLICATION NUMBER: US/09/847, 946A
 ; CURRENT FILING DATE: 2001-05-02
 ; PRIOR APPLICATION NUMBER: 60/201, 261
 ; PRIOR FILING DATE: 2000-05-02
 ; PRIOR APPLICATION NUMBER: 09/643, 260
 ; PRIOR FILING DATE: 2000-08-22
 ; NUMBER OF SEQ ID NOS: 160
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 73
 ; LENGTH: 6
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
 ; OTHER INFORMATION: Sequence
 US-09-847-946A-73

Query Match	Score	DB	Length	Indels	Gaps
Qy 1 ADWSWA 6	100.0%	6	6	0	0
Db 1 ADWSWA 6	100.0%	6	6	0	0

RESULT 3
 US-09-847-946A-77
 ; Sequence '77, Application US/09847946A
 ; Publication No. US2003005499A1
 ; GENERAL INFORMATION:
 ; APPLICANT: May, Michael J
 ; APPLICANT: Ghosh, Sankar
 ; APPLICANT: Findeis, Mark A
 ; APPLICANT: Phillips, Kathryn
 ; APPLICANT: Hannig, Gerhard
 ; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
 ; FILE REFERENCE: PPI-119
 ; CURRENT APPLICATION NUMBER: US/09/847, 946A
 ; CURRENT FILING DATE: 2001-05-02
 ; PRIOR APPLICATION NUMBER: 60/201, 261
 ; PRIOR FILING DATE: 2000-05-02
 ; PRIOR APPLICATION NUMBER: 09/643, 260
 ; PRIOR FILING DATE: 2000-08-22
 ; NUMBER OF SEQ ID NOS: 160
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 77
 ; LENGTH: 7
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
 ; OTHER INFORMATION: Sequence
 US-09-847-946A-77

Query Match	Score	DB	Length	Indels	Gaps
Qy 1 ADWSWA 6	100.0%	6	6	0	0
Db 1 ADWSWA 6	100.0%	6	6	0	0

RESULT 4
 US-09-847-946A-70
 ; Sequence '70, Application US/09847946A
 ; Publication No. US2003005499A1
 ; GENERAL INFORMATION:
 ; APPLICANT: May, Michael J
 ; APPLICANT: Ghosh, Sankar
 ; APPLICANT: Findeis, Mark A
 ; APPLICANT: Phillips, Kathryn
 ; APPLICANT: Hannig, Gerhard
 ; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
 ; FILE REFERENCE: PPI-119
 ; CURRENT APPLICATION NUMBER: US/09/847, 946A
 ; CURRENT FILING DATE: 2001-05-02
 ; PRIOR APPLICATION NUMBER: 60/201, 261
 ; PRIOR FILING DATE: 2000-05-02
 ; PRIOR APPLICATION NUMBER: 09/643, 260
 ; PRIOR FILING DATE: 2000-08-22
 ; NUMBER OF SEQ ID NOS: 160
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 70
 ; LENGTH: 8
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
 ; OTHER INFORMATION: Sequence
 US-09-847-946A-70

Query Match	Score	DB	Length	Indels	Gaps
Qy 1 ADWSWA 6	100.0%	6	6	0	0
Db 3 ADWSWA 8	100.0%	8	6	0	0

RESULT 5
 US-09-847-946A-78
 ; Sequence '78, Application US/09847946A
 ; Publication No. US2003005499A1
 ; GENERAL INFORMATION:
 ; APPLICANT: May, Michael J
 ; APPLICANT: Ghosh, Sankar
 ; APPLICANT: Findeis, Mark A
 ; APPLICANT: Phillips, Kathryn
 ; APPLICANT: Hannig, Gerhard
 ; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
 ; FILE REFERENCE: PPI-119
 ; CURRENT APPLICATION NUMBER: US/09/847, 946A
 ; CURRENT FILING DATE: 2001-05-02
 ; PRIOR APPLICATION NUMBER: 60/201, 261
 ; PRIOR FILING DATE: 2000-05-02
 ; PRIOR APPLICATION NUMBER: 09/643, 260
 ; PRIOR FILING DATE: 2000-08-22
 ; NUMBER OF SEQ ID NOS: 160
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO 78
 ; LENGTH: 8
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
 ; OTHER INFORMATION: Sequence
 US-09-847-946A-78

Query Match	Score	DB	Length	Indels	Gaps
Qy 1 ADWSWA 6	100.0%	6	6	0	0
Db 6 ADWSWA 8	100.0%	8	6	0	0

RESULT 6
 US-09-847-946A-69
 ; Sequence 69, Application US/09847946A
 ; Publication No. US20030054999A1
 ; GENERAL INFORMATION:
 ; APPLICANT: May, Michael J
 ; APPLICANT: Ghosh, Sankar
 ; APPLICANT: Findeis, Mark A
 ; APPLICANT: Phillips, Kathryn
 ; APPLICANT: Hannig, Gerhard
 ; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
 ; FILE REFERENCE: PPI-119
 ; CURRENT APPLICATION NUMBER: US/09/847, 946A
 ; CURRENT FILING DATE: 2001-05-02
 ; PRIOR APPLICATION NUMBER: 60/201, 261
 ; PRIOR FILING DATE: 2000-05-02
 ; NUMBER OF SEQ ID NOS: 160
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 69
 ; LENGTH: 9
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
 ; OTHER INFORMATION: sequence
 ; US-09-847-946A-69

Query Match 100.0%; Score 6; DB 10; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 7
 US-09-847-946A-72
 ; Sequence 72, Application US/09847946A
 ; Publication No. US20030054999A1
 ; GENERAL INFORMATION:
 ; APPLICANT: May, Michael J
 ; APPLICANT: Ghosh, Sankar
 ; APPLICANT: Findeis, Mark A
 ; APPLICANT: Phillips, Kathryn
 ; APPLICANT: Hannig, Gerhard
 ; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
 ; FILE REFERENCE: PPI-119
 ; CURRENT APPLICATION NUMBER: US/09/847, 946A
 ; CURRENT FILING DATE: 2001-05-02
 ; PRIOR APPLICATION NUMBER: 60/201, 261
 ; PRIOR FILING DATE: 2000-05-02
 ; NUMBER OF SEQ ID NOS: 160
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 72
 ; LENGTH: 9
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
 ; OTHER INFORMATION: sequence
 ; US-09-847-946A-72

Query Match 100.0%; Score 6; DB 10; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 8
 US-09-847-946A-75
 ; Sequence 75, Application US/09847946A
 ; Publication No. US20030054999A1
 ; GENERAL INFORMATION:
 ; APPLICANT: May, Michael J
 ; APPLICANT: Ghosh, Sankar
 ; APPLICANT: Findeis, Mark A
 ; APPLICANT: Phillips, Kathryn
 ; APPLICANT: Hannig, Gerhard
 ; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
 ; FILE REFERENCE: PPI-119
 ; CURRENT APPLICATION NUMBER: US/09/847, 946A
 ; CURRENT FILING DATE: 2001-05-02
 ; PRIOR APPLICATION NUMBER: 60/201, 261
 ; PRIOR FILING DATE: 2000-05-02
 ; PRIOR APPLICATION NUMBER: 09/643, 260
 ; PRIOR FILING DATE: 2000-08-22
 ; NUMBER OF SEQ ID NOS: 160
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 75
 ; LENGTH: 9
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
 ; OTHER INFORMATION: sequence
 ; US-09-847-946A-75

Query Match 100.0%; Score 6; DB 10; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

RESULT 9
 US-09-847-946A-76
 ; Sequence 76, Application US/09847946A
 ; Publication No. US20030054999A1
 ; GENERAL INFORMATION:
 ; APPLICANT: May, Michael J
 ; APPLICANT: Ghosh, Sankar
 ; APPLICANT: Findeis, Mark A
 ; APPLICANT: Phillips, Kathryn
 ; APPLICANT: Hannig, Gerhard
 ; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
 ; FILE REFERENCE: PPI-119
 ; CURRENT APPLICATION NUMBER: US/09/847, 946A
 ; CURRENT FILING DATE: 2001-05-02
 ; PRIOR APPLICATION NUMBER: 60/201, 261
 ; PRIOR FILING DATE: 2000-05-02
 ; PRIOR APPLICATION NUMBER: 09/643, 260
 ; PRIOR FILING DATE: 2000-08-22
 ; NUMBER OF SEQ ID NOS: 160
 ; SOFTWARE: PatentIn Ver. 2.0
 ; SEQ ID NO: 76
 ; LENGTH: 9
 ; TYPE: PRT
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
 ; OTHER INFORMATION: sequence
 ; US-09-847-946A-76

Query Match 100.0%; Score 6; DB 10; Length 9;
 Best Local Similarity 100.0%; Pred. No. 1e+06;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSWA 6
 Db 1 ADWSWA 6

; OTHER INFORMATION: sequence
US-09-847-946A-76

Query Match 100.0%; Score 6; DB 10; Length 9;
Best Local Similarity 100.0%; Pred. No. 1e+06;
Matches 6; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

Qy 1 ADWSWA 6
2 ADWSWA 7
Db

RESULT 10
US-09-847-946A-71
; Sequence 71, Application US/09847946A
; Publication No. US2003005499A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847, 946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201, 261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643, 260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SEQ ID NO 71
; SOFTWARE: PatentIn Ver. 2.0
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NEMO binding
; OTHER INFORMATION: sequence
US-09-847-946A-71

Query Match 100.0%; Score 6; DB 10; Length 10;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 6; Conservative 0; Mismatches 0; Indels 0;
Gaps 0;

Qy 1 ADWSWA 6
2 ADWSWA 7
Db

RESULT 11
US-09-847-946A-74
; Sequence 74, Application US/09847946A
; Publication No. US2003005499A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847, 946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201, 261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643, 260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SEQ ID NO 74
; SOFTWARE: PatentIn Ver. 2.0
; LENGTH: 10
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:

OTHER INFORMATION: Description of Artificial Sequence:NBD mutants
US-09-847-940B-4

Query Match 83.3%; Score 5; DB 9; Length 6;
Best Local Similarity 100.0%; Fred. No. 1e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ADWSW 5
Db 1 ADWSW 5

RESULT 14
US-09-847-940B-5
; Sequence 5, Application US/09847940B
; Patent No. US20020156000A1
; GENERAL INFORMATION:
; APPLICANT: Ghosh, Sankar
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-117CP
; CURRENT APPLICATION NUMBER: US/09/847, 940B
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 09/643, 260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 6
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NBD mutants
US-09-847-940B-5

Query Match 83.3%; Score 5; DB 9; Length 6;
Best Local Similarity 100.0%; Fred. No. 1e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 DWSWA 6
Db 2 DWSWA 6

RESULT 15
US-09-847-946A-4
; Sequence 4, Application US/09847946A
; Publication No. US20030054999A1
; GENERAL INFORMATION:
; APPLICANT: May, Michael J.
; APPLICANT: Ghosh, Sankar
; APPLICANT: Findeis, Mark A.
; APPLICANT: Phillips, Kathryn
; APPLICANT: Hannig, Gerhard
; TITLE OF INVENTION: ANTI-INFLAMMATORY COMPOUNDS AND USES THEREOF
; FILE REFERENCE: PPI-119
; CURRENT APPLICATION NUMBER: US/09/847, 946A
; CURRENT FILING DATE: 2001-05-02
; PRIOR APPLICATION NUMBER: 60/201, 261
; PRIOR FILING DATE: 2000-05-02
; PRIOR APPLICATION NUMBER: 09/643, 260
; PRIOR FILING DATE: 2000-08-22
; NUMBER OF SEQ ID NOS: 160
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 6
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:NBD peptide
US-09-847-946A-4

Query Match 83.3%; Score 5; DB 10; Length 6;

Best Local Similarity 100.0%; Fred. No. 1e+06;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ADWSW 5
Db 1 ADWSW 5

Search completed: April 27, 2004, 09:04:07
Job time : 42 secs

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OM protein - protein search, using sw model

Run on: April 27, 2004, 08:55:33 ; Search time 22 Seconds
(without alignments)
14.080 Million cell updates/sec

Title: US-09-847-940C-6

Perfect score: 6

Sequence: 1 ADWSWA 6

Scoring table: OLIGO
Gapext 60.0 , Gapext 60.0

Searched: 389414 seqs, 51625971 residues

Word size : 0

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : Issued_Patents_AA:*

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2: /cgn2_6/ptodata/2/iaa/5B_COMB.pep:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB	ID	Description
1	5	83.3	68	4	US-09-252-991A-18367		Sequence 18367, A
2	5	83.3	142	4	US-09-252-991A-31533		Sequence 31533, A
3	5	83.3	174	4	US-09-325-932A-163		Sequence 163, App
4	5	83.3	225	4	US-09-325-932A-162		Sequence 162, App
5	5	83.3	236	4	US-09-632-570-17		Sequence 17, Appl
6	5	83.3	236	4	US-09-632-575-47		Sequence 47, Appl
7	5	83.3	242	4	US-09-345-236B-3		Sequence 3, Appl
8	5	83.3	378	4	US-09-325-932A-158		Sequence 158, App
9	5	83.3	445	4	US-09-252-991A-22368		Sequence 22368, A
10	5	83.3	462	4	US-09-252-991A-21704		Sequence 21704, A
11	4	66.7	5	6	5217869-75		Patent No. 5217869
12	4	66.7	8	1	US-08-435-925C-9		Sequence 9, Appl
13	4	66.7	9	1	US-08-435-925C-10		Sequence 10, Appl
14	4	66.7	21	1	US-08-190-788A-246		Sequence 246, App
15	4	66.7	21	1	US-08-383-474B-249		Sequence 249, App
16	4	66.7	21	1	US-08-465-391A-246		Sequence 246, App
17	4	66.7	21	2	US-08-464-538B-246		Sequence 246, App
18	4	66.7	21	2	US-08-463-076E-303		Sequence 303, App
19	4	66.7	21	4	US-09-428-082B-866		Sequence 866, App
20	4	66.7	44	3	US-08-905-223-274		Sequence 274, App
21	4	66.7	74	1	US-08-379-538-2		Sequence 2, Appl
22	4	66.7	78	3	US-09-177-249-184		Sequence 184, App
23	4	66.7	79	4	US-09-252-991A-27207		Sequence 27207, A
24	4	66.7	80	4	US-09-621-976-4160		Sequence 4160, App
25	4	66.7	84	3	US-09-251-372-4		Sequence 4, Appl
26	4	66.7	84	4	US-09-811-241-4		Sequence 4, Appl
27	4	66.7	84	4	US-09-252-991A-19040		Sequence 19040, A

ALIGNMENTS

RESULT 1
US-09-252-991A-18367
; Sequence 18367, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196-136
; CURRENT APPLICATION NUMBER: US/09/252, 991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074, 788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094, 190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; LENGTH: 68
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18367

Query Match 83.3%; Score 5; DB 4; Length 68;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DWSWA 6
Db 2 DWSWA 6

RESULT 2
US-09-252-991A-31533
; Sequence 31533, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 107196-136
; CURRENT APPLICATION NUMBER: US/09/252, 991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074, 788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094, 190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; LENGTH: 142
; TYPE: PRT

; ORGANISM: *Pseudomonas aeruginosa*
 US-09-252-991A-31533

Query Match 83.3%; Score 5; DB 4; Length 142;
 Best Local Similarity 100.0%; Pred. No. 2.3;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSW 5
 Db 94 ADWSW 98

RESULT 3
 US-09-325-932A-163
 ; Sequence 163, Application US/09325932A
 ; Patent No. 6451604
 ; GENERAL INFORMATION:
 ; APPLICANT: Flinn, Barry
 ; TITLE OF INVENTION: Compositions affecting programmed cell
 ; TITLE OF INVENTION: death and their use in the modification of forestry plant develc
 ; FILE REFERENCE: 1022
 ; CURRENT APPLICATION NUMBER: US/09/325,932A
 ; CURRENT FILING DATE: 1999-06-04
 ; NUMBER OF SEQ ID NOS: 206
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 163
 ; LENGTH: 174
 ; TYPE: PRT
 ; ORGANISM: *Eucalyptus grandis*
 US-09-325-932A-163

Query Match 83.3%; Score 5; DB 4; Length 174;
 Best Local Similarity 100.0%; Pred. No. 2.7;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSW 5
 Db 109 ADWSW 113

RESULT 4
 US-09-325-932A-162
 ; Sequence 162, Application US/09325932A
 ; Patent No. 6451604
 ; GENERAL INFORMATION:
 ; APPLICANT: Flinn, Barry
 ; APPLICANT: Lasham, Annette
 ; TITLE OF INVENTION: Compositions affecting programmed cell
 ; TITLE OF INVENTION: death and their use in the modification of forestry plant develc
 ; FILE REFERENCE: 1022
 ; CURRENT APPLICATION NUMBER: US/09/325,932A
 ; CURRENT FILING DATE: 1999-06-04
 ; NUMBER OF SEQ ID NOS: 206
 ; SOFTWARE: FastSEQ for Windows Version 3.0
 ; SEQ ID NO 162
 ; LENGTH: 225
 ; TYPE: PRT
 ; ORGANISM: *Eucalyptus grandis*
 US-09-325-932A-162

Query Match 83.3%; Score 5; DB 4; Length 225;
 Best Local Similarity 100.0%; Pred. No. 3.4;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSW 5
 Db 100 ADWSW 104

RESULT 5
 US-09-632-570-17
 ; Sequence 17, Application US/09632570

; Patent No. 6623949
 ; GENERAL INFORMATION:
 ; APPLICANT: Gualfetti, Peter
 ; APPLICANT: Mitchinson, Colin
 ; APPLICANT: Phillips, Jay Ian
 ; TITLE OF INVENTION: No. 6623949el Variant EGIII-Like Cellulase
 ; TITLE OF INVENTION: Compositions
 ; FILE REFERENCE: GC631
 ; CURRENT APPLICATION NUMBER: US/09/632,570
 ; CURRENT FILING DATE: 2000-08-04
 ; NUMBER OF SEQ ID NOS: 64
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 17
 ; LENGTH: 236
 ; TYPE: PRT
 ; ORGANISM: *Gliocladium roseum* (3)
 US-09-632-570-17

Query Match 83.3%; Score 5; DB 4; Length 236;
 Best Local Similarity 100.0%; Pred. No. 3.5;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSW 5
 Db 63 ADWSW 67

RESULT 6
 US-09-632-575-47
 ; Sequence 47, Application US/09632575
 ; Patent No. 6635465

; GENERAL INFORMATION:
 ; APPLICANT: Gualfetti, Peter
 ; APPLICANT: Mitchinson, Colin
 ; APPLICANT: Ropp, Traci M.
 ; TITLE OF INVENTION: Mutant EGIII Cellulase, DNA Encoding
 ; TITLE OF INVENTION: Such EGIII Compositions and Methods for Obtaining Same
 ; FILE REFERENCE: GC629
 ; CURRENT APPLICATION NUMBER: US/09/632,575
 ; CURRENT FILING DATE: 2000-08-04
 ; NUMBER OF SEQ ID NOS: 54
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 47
 ; LENGTH: 236
 ; TYPE: PRT
 ; ORGANISM: *Gliocladium roseum* (3)
 US-09-632-575-47

Query Match 83.3%; Score 5; DB 4; Length 236;
 Best Local Similarity 100.0%; Pred. No. 3.5;
 Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSW 5
 Db 63 ADWSW 67

RESULT 7
 US-09-345-236B-3
 ; Sequence 3, Application US/09345236B
 ; Patent No. 6521454

; GENERAL INFORMATION:
 ; APPLICANT: Becnel, James J.
 ; APPLICANT: Tukuo, Fukuda
 ; APPLICANT: Moser, Bettina
 ; APPLICANT: Cockburn, Andrew
 ; APPLICANT: White, Susan E.
 ; APPLICANT: Undeen, Albert H.
 ; TITLE OF INVENTION: No. 6521454el Baculoviruses, Insecticidal
 ; TITLE OF INVENTION: Compositions, and Methods for Control of Invertebrates
 ; FILE REFERENCE: 21042.0004
 ; CURRENT APPLICATION NUMBER: US/09/345,236B
 ; CURRENT FILING DATE: 1999-06-30

NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 242
; TYPE: PRT
; ORGANISM: mosquito baculovirus
; US-09-345-236B-3

Query Match 83.3%; Score 5; DB 4; Length 242;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DWSWA 6
Db 80 DWSWA 84

RESULT 8
US-09-325-932A-158
; Sequence 158, Application US/09325932A
; Patent No. 6451604
; GENERAL INFORMATION:
; APPLICANT: Flinn, Barry
; TITLE OF INVENTION: Compositions affecting programmed cell
; TITLE OF INVENTION: death and their use in the modification of forestry plant develop
; FILE REFERENCE: 1022
; CURRENT APPLICATION NUMBER: US/09/325, 932A
; CURRENT FILING DATE: 1999-06-04
; NUMBER OF SEQ ID NOS: 206
; SOFTWARE: 'FastSEQ for Windows Version 3.0
; SEQ ID NO 158
; LENGTH: 378
; TYPE: PRT
; ORGANISM: Eucalyptus grandis
; US-09-325-932A-158

Query Match 83.3%; Score 5; DB 4; Length 378;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ADWSW 5
Db 128 ADWSW 132

RESULT 9
US-09-252-991A-22368
; Sequence 22368, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196-136
; CURRENT APPLICATION NUMBER: US/09/252, 991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/094, 190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 22368
; LENGTH: 445
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-22368

Query Match 83.3%; Score 5; DB 4; Length 445;
Best Local Similarity 100.0%; Pred. No. 6.2;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DWSWA 6

RESULT 10
US-09-252-991A-21704
; Sequence 21704, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
; APPLICANT: Marc J. Rubenfield et al.
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
; FILE REFERENCE: 107196-136
; CURRENT APPLICATION NUMBER: US/09/252, 991A
; CURRENT FILING DATE: 1999-02-18
; PRIOR APPLICATION NUMBER: US 60/074, 788
; PRIOR FILING DATE: 1998-02-18
; PRIOR APPLICATION NUMBER: US 60/094, 190
; PRIOR FILING DATE: 1998-07-27
; NUMBER OF SEQ ID NOS: 33142
; SEQ ID NO 21704
; LENGTH: 462
; TYPE: PRT
; ORGANISM: Pseudomonas aeruginosa
; US-09-252-991A-21704

Query Match 83.3%; Score 5; DB 4; Length 462;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DWSWA 6
Db 169 DWSWA 173

RESULT 11
5217869-75
; Patent No. 5217869
; APPLICANT: KAUVAR, LAWRENCE M.
; TITLE OF INVENTION: METHOD TO PRODUCE IMMUNODIAGNOSTIC
; REAGENTS
; NUMBER OF SEQUENCES: 121
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/255, 906
; FILING DATE: 11-OCT-1988
; SEQ ID NO:75:
; LENGTH: 5
5217869-75

Query Match 66.7%; Score 4; DB 6; Length 5;
Best Local Similarity 100.0%; Pred. No. 3e+05;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 DWSW 5
Db 1 DWSW 4

RESULT 12
US-08-435-925C-9
; Sequence 9, Application US/08435925C
; Patent No. 5646025
; GENERAL INFORMATION:
; APPLICANT: Moyer, Donna
; TITLE OF INVENTION: SCYTALIDUM CATALASE GENE
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: NO. 5646025o No. 5646025disk of No. 5646025th America, Inc.
; STREET: 405 Lexington Avenue, 64th Floor
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10174-6401

COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/435,925C
 FILING DATE: 05-MAY-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.
 REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 4429.000-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123
 TELEXFAX: 212-878-9655
 INFORMATION FOR SEQ ID NO: 9:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 8 amino acids
 TYPE: amino acid
 STRANDEDNESS: Single
 TOPOLOGY: linear
 US-08-435-925C-9

Query Match 66.7%; Score 4; DB 1; Length 8;
 Best Local Similarity 100.0%; Pred. No. 3e+05;
 Matches 4; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;

Qy 1 ADWS 4
 Db 1 ADWS 4

RESULT 13
 US-08-435-925C-10
 ; Sequence 10, Application US/08435925C
 ; Patent No. 5646025
 ; GENERAL INFORMATION:
 ; APPLICANT: Moyer, Donna
 ; TITLE OF INVENTION: SCYTALIDUM CATALASE GENE
 ; NUMBER OF SEQUENCES: 18
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: No. 56460250 No. 5646025disk of No. 5646025th America, Inc.
 ; STREET: 405 Lexington Avenue, 64th Floor
 ; CITY: New York
 ; STATE: New York
 ; COUNTRY: USA
 ; ZIP: 10174-6401
 ; COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC Compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Patent In Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/435,925C
 FILING DATE: 05-MAY-1995
 CLASSIFICATION: 435
 ATTORNEY/AGENT INFORMATION:
 NAME: Lambiris, Elias J.
 REGISTRATION NUMBER: 33,728
 REFERENCE/DOCKET NUMBER: 4429.000-US
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 212-867-0123
 TELEXFAX: 212-878-9655
 INFORMATION FOR SEQ ID NO: 10:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9 amino acids

Query Match 66.7%; Score 4; DB 1; Length 21;
 Best Local Similarity 100.0%; Pred. No. 12;
 Matches 4; Conservative 0; Mismatches 0; Indels 0;
 Gaps 0;

Qy 1 ADWS 4
 Db 7 ADWS 10

RESULT 15
 US-08-383-474B-249
 ; Sequence 249, Application US/08383474B
 ; Patent No. 5767234
 ; GENERAL INFORMATION:
 ; APPLICANT: Yanofsky, Stephen D.
 ; APPLICANT: Baldwin, Ronald W.
 ; APPLICANT: Baldwin, David N.
 ; APPLICANT: Jacobs, Jeff W.

US-08-435-925C-10
 Query Match 66.7%; Score 4; DB 1; Length 9;

TITLE OF INVENTION: Peptides and Compounds That Bind to
TITLE OF INVENTION: the IL-1 Receptor
NUMBER OF SEQUENCES: 314

CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend & Townsend & Crew LLP
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA

ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.25

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/383,474B

FILING DATE: 01-FEB-1995

CLASSIFICATION: 530

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/190,788

FILING DATE: 02-FEB-1994

CLASSIFICATION: 530

ATTORNEY/AGENT INFORMATION:

NAME: Stevens, Lauren L.

REGISTRATION NUMBER: 36,691

REFERENCE/DOCKET NUMBER: 1019.3

TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-496-2300

TELEFAX: 415-424-0832

INFORMATION FOR SEQ ID NO: 249:

SEQUENCE CHARACTERISTICS:

LENGTH: 21 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: peptide

US-08-383-474B-249

Query Match 66.7%; Score 4; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	ADWS	4
Db	7	ADWS	10

Search completed: April 27, 2004, 08:58:32
Job time : 23 secs

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